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NAVODAYA VIDYALAYA SAMITI

CLASS VI

SUBJECT: ART (VISUAL)

MONTH	NO. OF DAYS	NO. OF PERIODS	Main-Topics and Sub -Topics to be Covered	Medium / Materials	Projects/ Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands On Activities Prescribed
JULY- 2023	25	8	<p><b>DEFINITION OF FINE ARTS</b>  <b>What is the difference between Visual Art &amp; Performing Arts</b></p> <p>Give examples of different types of visual arts - Painting, Sculpture, Applied art, Craft, Images of paintings, etc. and similarly give examples for Various Performing Arts</p> <p><b>Describe the Term</b></p>	Pencil, Colour and Clay tools.	Sketches of basic Geometrical shapes (2D,3D)	Identification of Art forms and tools and materials required to present each of them.
AUGUST - 2023	26	8	<p><b>2D visual Art &amp; 3D Visual Art</b></p> <p>Discuss and show various examples 2D paintings and 3D sculptures etc. It can be shown to students and discussed with them.</p> <p><b>INTRODUCTION TO COLOUR:</b>                      Primary, secondary colours, tonal variations, etc and colouring them.</p> <p><b>INTRODUCTION TO DIFFERENT ART MATERIALS</b>                      Presentation/ demonstrations can be made for better understanding.                      Use of different types of pencils Example: 4H, 2H, HB. 2b.4B. 6. B, Charcoal pencil, colour pencil etc</p>	Pencil, Colour and geometrical tools.	Painting styles and types of different folk and traditional forms. (Miniature Paintings).	Identification and application of different colours and shades

AUGUST (Contd)			<p><b>UNDERSTANDING ELEMENTS OF ARTS: -</b> Theory and practical both should be simultaneously learned by students.</p> <p>i. Lines- Types and characteristics of line: straight lines, curve lines, horizontal lines, vertical line, circular &amp; angular lines, Features of Line Examples of different types of lines should be shown from historical and contemporary paintings.</p> <p>ii. Colour Primary, secondary and tertiary colours. Students can prepare colour wheel by using primary, secondary and tertiary colour. Prepare simple compositions by using primary, secondary and tertiary colours.</p> <p>iii. Form Different types of forms 1. Man-made forms 2. Geometrical forms Students should be encouraged to observe Traditional Paintings Drawings Designs to understand various treatments of lines in Art forms in their surroundings and their relationship with space.</p>			Drawing miniatures. (Water colour or Acrylic)
SEPTEMBER- 2023	24	8	<p><b>UNDERSTANDING BASIC SHAPES:</b> Students can see the geometrical forms in the surroundings of their Vidyalaya and Math laboratory. Basic shapes like circle, triangle, rectangle, square, hexagon, octagon etc. Also, pictures of monuments can be shown to explain the geometrical forms and buildings.</p>	Poster, Water Colour, Pencil and Brush.	3D Models and 2D paintings of various Geometrical shapes and figures.	Computer aided tools or applications (E.g. Paint, Corel Draw, Photoshop, Word Processing software etc.) To draw shapes and paintings (2D and 3D Objects.)

SEPTEMBER 2023			<p><b>UNDERSTANDING THREE DIMENSION (3D) THROUGH CLAY / PAPER PULP / ANY AVAILABLE MATERIALS LIKE POP</b></p> <p><b>FOR E.g.:</b></p> <p>a) What is the composition of clay? How to prepare clay for modeling?</p> <p>(b) Quality of clay</p> <p>(c) Handling of clay</p> <p>(d) Prepare simple pots by using clay coil/paper pulp, coil/ birds and any kind of objects</p>	Clay / Paper Pulp / Pop / Any Other If Available in Art Room.	Models 2D	Demonstration of Paintings and Clay models by the students.
OCTOBER-23	17	4	Submission of assignments			
NOVEMBER-2023	13	4	<p>(e) Prepare simple pots by using clay coil/paper pulp, coil/ birds and any kind of objects.</p> <p>(f) Theory- Indus valley civilization</p> <p>Show the items of Indus valley civilization like coin, ball, dancing girl, bead etc. Show video presentation/Photos- through computer or books.</p> <p>Call local experts/ resource persons/ potters to demonstrate to students</p> <p>.Remunerations may be paid from the Vidyalaya</p>	Clay / Paper Pulp / Pop / Any Other If Available in Art Room.	3D paintings of daily life activities.	Demonstration of Paintings and Clay models by the students.

DECEMBER 2023	25	8	<p><b>UNDERSTANDING ELEMENTS OF ARTS</b></p> <p><b>IV:- Texture</b>          What is texture in an object- as perceived by visual and physical properties?          Students may be asked to collect different textures and make it on paper by rubbing pencil (technique of frottage)          How printing takes place, especially block printing?          What is block?          Students can be given the exercise of printing with colours using actual objects such as, coin, rough surfaces of leaves and trees, pieces of vegetable like potato, ladies' finger etc. and asked to find different kinds of forms</p> <p><b>V:- Space</b>          What is space virtually and visually?          This can be explained by taking students to an open ground/ space, showing some paintings by Indian artists and explain space. They can be now given exercises.</p>	Different Mediums	Visual enhancement of elements in the subject or topic under pursuit with the help of various structures.	Group Activity in the form of preparation of various structural elements mentioned with reference to the story or poem discussed in class.
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">JANUARY 2024</p>	<p>20</p>	<p>6</p>	<p><b>CRAFT WORK:</b> Various Traditional Mediums Techniques related to the respective zone/ area</p> <p>What is craft?</p> <p>a) Paper craft</p> <p>b) Brief description of paper craft.</p> <p>c) Art from waste materials.</p> <p>d) Students can prepare models/ animal figures using waste materials.</p> <p>e) By cutting or folding students can prepare show piece items.</p> <p>f) Students can prepare puppets/ local craft by using paper/ waste materials.</p> <p>A small workshop can be arranged with the help of a local craftsman from the nearby area as per the fund availability</p>	<p>Any Materials like, bottle with M-Seal, pot designing</p> <p>Mask making</p> <p>Students may be motivated to learn traditional and local crafts and techniques Suitable</p>	<p>Models (2D, 3D), Sculpting.</p>	<p>Preparation of models from paper or other waste materials.</p>
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FEBRUARY 2024	26	8	<p><b>UNDERSTANDING PRINT AND DESIGN:</b> Concept of design and print, preparation of vegetable block and repetitive printing and designing, introduction to design (geometric &amp; freehand) and colouring them in monochrome as well as multi- colour, Stencil</p> <p>Students can also create eBooks/audio video presentation as part of Art integrated group activity will ensure active participation of all students with the effective use of free Android/ windows apps. Few online/ offline activities to publish their collection of poems/ story/ Art works/ special activities be taken up. Works can be published in the form of eBook, Presentations, Education Quiz, Games etc.</p>	<p>Poster Water Colour Printing Ink Pencil Colour and Geometrical tools.</p>	<p>Printing of art and shapes.</p>	<p>Printing of design (Kalamkari, Block Printing Design etc., and Stencil Cutting) by the students.</p>
<b>TERM 2 EXAMINATION</b>						

NB: National Education Policy, 2020 lays emphasis on multidisciplinary and a holistic education across all the subjects with the help of 'Art in Education' concept in order to ensure simplicity and the unity and integrity of all knowledge. Hence, effort may be envisioned and undertaken to encompass art in education concepts across subjects. Students need to submit portfolio of assignments at the end of the year for Internal Evaluation. Also the students should be encouraged to learn local art form.

NAVODAYA VIDYALAYA SAMITI

CLASS: VI

SUBJECT: COMPUTER

Month.	No. of Days	No. of Periods	Weight age of Marks for the Unit/ Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
APRIL 2023	22	08	15 MARKS	<p><b>COMPUTER BASICS</b></p> <ul style="list-style-type: none"> <li>• What is a computer?</li> <li>• Benefits of computer.</li> <li>• History of Computer.</li> <li>• Components of a Computer.                             <ol style="list-style-type: none"> <li>a) Hardware components.</li> <li>b) Software Components.</li> <li>c) Output and input devices</li> </ol> </li> <li>• Computer memory.</li> <li>• Storage Devices and their importance</li> <li>• Different types of printers</li> </ul> <p>Introduction to Artificial Intelligence</p>	<ul style="list-style-type: none"> <li>• Showing various hardware devices in Computer Lab</li> <li>• Assignment- preparing comparison table about different generations of computers.</li> </ul>	PWT-01
JULY 2023	13	04		<p><b>COMPUTER BASICS (contd...)</b></p> <ul style="list-style-type: none"> <li>• Types of Computer languages</li> <li>• Generation of Computers:                             <ul style="list-style-type: none"> <li>✓ First generation</li> <li>✓ Second generation</li> <li>✓ Third generation</li> <li>✓ Fourth generation</li> <li>✓ Fifth generation</li> </ul> </li> </ul>		

JULY /AUGUST 2023	25	08	15 MARKS	<p><b><u>INTRODUCTION TO WINDOWS</u></b></p> <ul style="list-style-type: none"> <li>• Operating System and its functions</li> <li>• Exploring the desktop.</li> <li>• Exploring My Computer</li> <li>• Exploring Windows</li> <li>• Applications of Windows</li> </ul> <p><b><u>Data management on Computers</u></b></p> <ul style="list-style-type: none"> <li>• Icons</li> <li>• Folders</li> <li>• Introduction of Open source</li> </ul> <p><b><u>INTRODUCTION TO LOGO</u></b></p> <ul style="list-style-type: none"> <li>• Introduction to Logo.</li> <li>• The turtle logo's prompt</li> <li>• Application of logo</li> </ul>	<ul style="list-style-type: none"> <li>• Types of operating systems Display on internet</li> <li>• Practical work- identifying the operating system and its version from a computer.</li> <li>• Familiarizing basic icons.</li> </ul>	PWT-02



<b>AUGUST/SEPTEMBER 2023</b>	<b>31</b>	<b>12</b>	<b>20 MARKS</b>	<p><b><u>INTRODUCTION TO LOGO</u></b> <b><u>(contd...)</u></b></p> <ul style="list-style-type: none"> <li>• Exploring logo window</li> <li>• Turtle basics</li> <li>• Basic logo commands</li> <li>• Entering logo basics</li> <li>• Introduction to writing procedures in Logo</li> <li>• Mathematical functions in Logo</li> </ul>	<ul style="list-style-type: none"> <li>• Practical - showing use of logo, drawing a line, triangle, rectangle</li> <li>• Assignment - construct procedures to draw a house.</li> <li>• Practical- basic paint tools</li> <li>• Importing images to paint</li> <li>• Cropping and resizing an image</li> <li>• Giving practical work that touches important tools in paint.</li> </ul>	
			<b>15 MARKS</b>	<p><b><u>USING PAINT BRUSH</u></b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Introduction to 3D paint Brush How to start paintbrush Home tab</li> <li>• Image menu command.</li> <li>a) Flip/rotate.</li> <li>b) Stretch/Skew</li> <li>c) Invert Colors</li> <li>d) Attributes.</li> <li>• Clear Image.</li> <li>• Pencil, eraser, fill with color, pick color, brush, airbrush, Text tool, shapes, magnifier</li> </ul>		
<b>MID TERM-1</b>						
<b>OCTOBER/NOVEMBER 2023</b>	<b>18</b>	<b>06</b>	<b>15 MARKS</b>	<p><b><u>NOTE PAD</u></b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Menu commands</li> <li>a) File.</li> <li>b) Edit.</li> <li>c) Search.</li> <li>d) Format</li> <li>e) Word Wrap.</li> <li>f) Font.</li> <li>g) Help</li> <li>• Options menu command.</li> <li>a) Edit colors.</li> <li>b) Get colors.</li> <li>c) Save colors.</li> <li>• Draw Opaque.</li> <li>• Help</li> <li>• Color, Palette, Drawing Tools</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment- word processors and their uses.</li> <li>• Familiarizing various menus of notepad</li> <li>• Practical related to colors.</li> </ul>	<b>PWT-03</b>

DECEMBER 2023/JANUARY 2024	44	15	20 MARKS	<p><b>MS WORD</b></p> <ul style="list-style-type: none"> <li>• Introduction to MS WORD.</li> <li>• Steps for starting WORD.</li> <li>• Components of WORD Screen.</li> <li>• Creating a new document.</li> <li>• Opening an existing WORD Document.</li> <li>• Word processing.</li> <li>• Important features of MS Word.</li> <li>• Editing in MSWORD.</li> <li>a) Typing text.</li> <li>b) Selecting the text.</li> <li>c) Copy, cut, paste the text</li> <li>d) Deleting the text</li> <li>• Saving the document.</li> <li>• Printing of documents</li> <li>• Introduction to Internet and its importance</li> </ul>	<ul style="list-style-type: none"> <li>• Showing each tool of MS Word.</li> <li>• Making the students to familiarize with the keyboard.</li> <li>• Assignment- various shortcut keys in MS Word.</li> <li>• Typing any paragraph from the textbook.</li> <li>• Formatting the fonts such as applying colors, making bold etc.</li> <li>• Converting a word file into PDF.</li> </ul>	PWT-04
FEBRUARY – REVISION						
MARCH YEARLY EXAMINATION						

**Note:**For Term-II/Yearly-Exam **Note:** For Term-II/Yearly-Examination Question-Paper consisting of 10% of 1st term covering significant topics plus entire syllabus of 2nd term.

**Project:**

- ART INTEGRATION PROJECT (including all the subjects) may be incorporated wherever possible (At least one)
- The periods available for a month are calculated as per the Holidays/vacations tentatively. However, extra classes may be taken if the syllabus part is not completed as per suggested allotment.
- Assignments to be given to students periodically.
- The exact dates and time schedules of the PWT/HY/Annual exams will be intimated by NVS from time to time.
- REFERENCE(S): March ahead with ICT,NCERT syllabus

## NAVODAYVIDYALAYASAMITI

Class: VI

Subject: English

S. No.	Sections	Marks allotted
1	Section A - Reading	15 Marks
2	Section B - Writing	15 Marks
3	Section C - Grammar	10 Marks
4	Section D - Literature	40 Marks
	<b>Total Marks</b>	<b>80 Marks</b>
	Internal Assessment	20 Marks
	<b>Grand Total</b>	<b>100 Marks</b>

Month	No. of Days	No. of Periods	Main topics and sub-topics to be covered	Activities/Projects/Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)
JULY 2023	23	28	<p><b>Honey Suckle Prose</b> 1. Who Did Patrick's Homework? (Art Integrated Pedagogy / Storytelling Pedagogy/ Integration of ICT)</p> <p><b>Poetry</b> 1. A House, A Home (Art Integrated Pedagogy)</p> <p><b>A Pact With the Sun</b> 1. A Tale of Two Birds. (Story Telling Pedagogy–Panchatantra/Jataka Tales)</p> <p><b>Reading, Grammar and Composition</b> Parts of Speech Article (A, An and The) Short Paragraph Writing Ex .My Garden, My favorite Game etc.</p>	<ol style="list-style-type: none"> <li>Making a toy/ drawing a picture of an elf, a cat, a boy etc.</li> <li>Explain your favourite cartoon character.</li> <li>Speaking a few lines on the topic“ Advantages and Disadvantages of Homework.</li> <li>Paragraph Writing on the Topic: “How my homework helps me”.</li> <li>Make a family tree and explain differences between A House and A Home.</li> <li>Make a model of the house of different areas of the World. (Group Activity)</li> <li>Writing as many words /phrases possible related to house and home and making them simple (Group Activity) Discussing and writing a few sentences on the topic “My Sweet Home”. (Group activity)</li> <li>Recite rhymes, action songs</li> <li>Self-introduction with given inputs.</li> <li>Mention any five things which you learnt in your school.</li> <li>Web picture on parts of speech</li> <li>Language Games – Spin Wheel for usage of Articles</li> </ol>
			Periodic Written Test-1/UT1- From 17 July 2023 to 19 July 2023	Page 18   519

AUGUST 2023	23	28	<p><b>Honey Suckle Prose</b> 2. How the Dog Found Himself a New Master ! (Story Telling/Art Integrated pedagogies)</p> <p><b>Poetry</b> 2. The Kite 3. The Quarrel</p> <p><b>A Pact with the Sun</b> (Story Telling and Art Integrated Pedagogies) 2.The Friendly Mongoose 3.The Shepherd's Treasure</p> <p><b>Reading, Grammar and Composition</b> Sentence: Its Structure and types Forming Nouns by adding suffixes. Antonyms Guiding for comprehension of unseen passages.</p>	<ol style="list-style-type: none"> <li>1. Narrating Folk Tale in the Classroom.</li> <li>2. Listen to Panchtantra stories/Aesop's Fables.</li> <li>3. Role – Play: Dialogue between the man and the dog, when they meet first time.</li> </ol> <p>(Integration of Sports)</p> <ol style="list-style-type: none"> <li>4. Make a Kite and describe the process of making in your own words.</li> <li>5. Writing on the topic “If I am a Kite”</li> </ol> <ol style="list-style-type: none"> <li>6. Describe a fight with your sibling/friend</li> <li>7. Share your feeling and ideas about your pet.</li> <li>8. Making toys/ drawing pictures of different pet animals.</li> <li>9. Narrating similar story based on the theme of Friendship.</li> <li>10. Introducing friends, teachers and family members (in the form of conversation)</li> <li>11. Group work on Sentence Framing.</li> <li>12. Writing paragraphs on simple topics with hints.</li> </ol> <p>Suggestive topics- A memorable day, favorite time of day, My first day at Navodaya school, how like to spend my Sunday.</p>
	<p><b>Periodic Written Test–2 /UT2 – From 21 August 2023 to 23 August 2023</b></p>			

<p>SEPTEMBER 2023</p>	<p>24</p>	<p>30</p>	<p><b>Honey Suckle Prose</b></p> <p>3. Taro's Reward (Story Telling Pedagogy/Art Integrated)</p> <p>4. An Indian-American Woman in Space: Kalpana Chawla. (Collaborating with ICT)</p> <p>5. A Different Kind of School</p> <p><b>Poetry</b></p> <p>4. Beauty</p> <p>5. Where Do All the Teachers Go? (Rhyming words &amp; Poetic device)</p> <p><b>A Pact with the Sun</b></p> <p>4. The Old-Clock Shop (Story Telling/ Art Integrated Pedagogy –Aesop's tales</p> <p>5. Tansen (Story Telling Pedagogy/Art Integrated.)</p> <p><b>Grammar and Composition</b></p> <p>Adjective: Degrees of Comparison</p> <p>Collective Nouns, Verb Forms – Regular and Irregular verbs.</p>	<p>1. Demonstration of a story based on Honesty. "The Honest Woodcutter".</p> <p>2. Narration of similar story based on the theme of "Dignity of Labour" "Sincerity" "Care and Respect of parents and elders". Screening the story of Shraavan Kumar.</p> <p>3. Making model of Space Shuttle.</p> <p>4. Screening of Kalpana Chawla's Space journey.</p> <p>5. Making Kalpana Chawla's bio-data using textual information.</p> <p>6. Project work on Sunita Williams, Buzz Aldrin, Rakesh Sharma &amp; Ravish Malhotra.</p> <p>7. Making profiles of eminent personalities who are physically challenged.</p> <p>8. Interviewing of a differently abled persons of your School/Locality. (Using the given questionnaire)</p> <p>9. Write a few similar lines about what teachers do at home (with rhyming words)</p> <p>10. Collect/Narrate Stories of Akbar/Birbal.</p> <p><b>Grammar</b></p> <p>1. Language Games and Activities.</p> <p>2. Integration of ICT for Grammar and Language Games.</p> <p>3. Group Games Quiz in Framing Questions (Chain Activity)</p> <p>4. Create your own Dictionary Template.</p>
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		<p>Use of Prefixes to form Autonyms</p> <p>Tenses (Past, Present and Future)</p> <p>Framing Questions, Rearrange jumbled words into sentences.</p> <p>Formal Letters:</p> <p>To School Authorities</p> <p>Application for Leave</p>	
<p>TERM- IEXAM- From 03 October 2023 to 14 October 2023</p>			



OCTOBER & NOVEMBER, 2023	20	28	<p><b>Honey Suckle Prose</b></p> <p>6. Who I Am?</p> <p><b>Poetry</b></p> <p>6.The Wonderful Words</p> <p><b>A Pact with the Sun</b></p> <p>6.The Monkey and the Crocodile(Story Telling (Jataka Tales /Art Integrated Pedagogy)</p> <p><b>Grammar and Composition</b></p> <p>One Word for a group of Words.</p> <p>Paragraph Writing with Inputs.</p>	<p>1. Speak about your favourite day/activity.</p> <p>2. Paragraph writing on various activities in school</p> <p>3. Role play-for any chosen Jataka Tales</p> <p>Writing and speaking on the topic 'my aim /my dream'</p>
	<p><b>Periodic Written Test 3/UT3 – From 07 December 2023 to 09 December 2023</b></p>			
DECEMBER2023	24	30	<p><b>Honey Suckle Prose</b></p> <p>7.Fair Play (Sport Integrated Pedagogy)</p> <p>8. A Game of Chance (Sport Integrated Pedagogy)</p> <p><b>Poetry</b></p> <p>7.Vocation (Collaboration technology to show different occupations &amp; businesses)</p>	<p>1. Mask making of the different characters of the story "Fair Play"</p> <p>2. Dramatization of the story "FairPlay".</p> <p>3. Reading famous stories like Namak ka Daroga, Boodhi Kaaki ,Eidgaah, Poos Ki raat, Kafan etc. of Munshi Prem Chand.</p> <p>4. Enacting "Fair Play".</p>

		<p><b>A Pact with the Sun</b></p> <p>7. The Wonder Called Sleep</p> <p><b>Reading, Grammar and Composition</b></p> <p>Dialogue Writing, Reordering of Sentences</p> <p>Phrasal Verbs</p> <p>Usage of word as Noun and Verb Usage of 'to be' form Homonyms</p> <p>Usage of 'there' and 'It' as Subject Tense: Simple, Continuous and Perfect</p>	<p>5. Describe a Village Fair.</p> <p>6. Make different cards for different kinds of work done by the people in your locality.</p> <p>7. Speak on the Topic "How Online Games or Games in the fair cheat people for Money"</p> <p>8. Speak and Write on the topic the "Pleasant dream I had"</p> <p>9. Tagging Adjectives to our names</p> <p>Card Game –Synonyms</p>
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JANUARY 2024	21	26	<p><b>Honey Suckle Prose</b></p> <p>9. Desert Animals</p> <p><b>Poetry</b></p> <p>8. What if</p> <p><b>A Pact with the Sun</b></p> <p>9. What Happened to the Reptiles 10. A Strange Wrestling Match</p> <p><b>Reading, Grammar and Composition</b></p> <p>1. Use of Has to/Have to/Had to 2. Adjective: Superlative Degree 3. Usage of Preposition 4. Comprehension of Unseen Passage</p>	<p>1. Making profile of desert animals (Group activity)</p> <p>2. Simple poem composition with their what if thoughts using proper rhyming words</p> <p>3. Listening tasks (short stories or passages)</p> <p>4. Fill in the blanks</p> <p>5. Making Charts/Flashcards</p>
<p><b>Periodic Written Test 4/UT4 - From 01 February 2024 to 03 February 2024</b></p>				
FEBRUARY 2024	23	28	<p><b>Honey Suckle Prose</b></p> <p>10. The Banyan Tree (Story Telling / Sport Integrated Pedagogy)</p> <p><b>Grammar and Composition</b></p> <p>Integrated Grammar Practice Story Writing with Hints Adjectives: Degrees of comparison</p>	<p>1. Presentation of conversation regarding visit to grandparents' house/ historical place, etc. in vacation.</p> <p>2. Present small Skits on simple message-oriented themes</p> <p>3. Writing letters to family members.</p>
MARCH 2024	12	18	<p><b>Revision for Term-II Exam</b></p>	
<p><b>TERM- II EXAM - From 14 March 2024 to 27 March 2024</b></p>				

NOTE:

- Relevant unit from work book may be taken up.
- Internal Assessment as per guidelines given by CBSE/NCERT may be done
- Any changes in the syllabus, if announced by CBSE / NCERT during the academic year 2023- 24has to be incorporated in the split up syllabus by the concerned teacher and principal accordingly.
- Classroom transactions may be corresponding to NEP-2020.

## नवोदय विद्यालय समिति

कक्षा : 6

विषय : हिंदी (पाठ्यक्रम - ब)

क्रम संख्या	अध्याय / इकाई का नाम	उप भारांक	भारांक		
01	(अ) अपठित गद्यांश (आ) अपठित पद्यांश	5x1= 5 5x1= 5	10		
02	व्याकरण - पाठ्य पुस्तक से पाठ्यक्रमानुसार	1x20=20	20		
03	<b>दूर्वा भाग -1</b>  (अ) पठित गद्यांश पर आधारित (आ) पठित पद्यांश पर आधारित  पाठ्य पुस्तक पर आधारित प्रश्न - बहुविकल्पीय प्रश्न- लघु उत्तरीय प्रश्न - (अ) गद्य खंड - (आ) पद्य खंड -	1+1+1+1+1=5 1+1+1+1+1=5  8x1=8  6X2=12 6X2=12	10  08  24		
04	रचनात्मक लेखन - (अ) पत्र लेखन (आ) अनुच्छेद लेखन	1x4=4 1x4=4	08		
	कुल अंक	80	80		
	आंतरिक मूल्यांकन	20			
	समेकित योग	100			
सत्र -1			सत्र -2		
आवधिक परीक्षा - 01	आवधिक परीक्षा-02	अर्द्धवार्षिक परीक्षा (TERM-1)	आवधिक परीक्षा-03	आवधिक परीक्षा- 04	वार्षिक परीक्षा (TERM-2)
40	40	80	40	40	80

## नवोदय विद्यालय समिति

कक्षा : 6

विषय : हिंदी(पाठ्यक्रम-ब)

प्रथम सत्र -2023-2024

माह का नाम	दिनों की संख्या	कालांशों की संख्या	पाठ का नाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजना कार्य	आंतरिक मूल्यांकन / परीक्षा
जुलाई 2023	22	30	<b>दूर्वा भाग -1</b> <b>शब्द बनाने की विधि</b> अध्याय - 1 : कलम अध्याय - 2 : किताब अध्याय - 3 : घर <b>व्याकरण -</b>  1- वर्णमाला,संयुक्ताक्षर,बारहखड़ी 2- देवनागरी में संख्या लेखन (अ) स्वर और व्यंजन (आ) विलोम शब्द	परियोजना कार्य - वर्णमाला बारहखड़ी देवनागरी में संख्या लेखन	<b>1 बहुविकल्पीय प्रश्न -10</b> <b>2 पोर्टफोलियो -10</b> <b>3 श्रवण / वाचन -10</b>  <b>आवधिक परीक्षा -1</b>

<p style="text-align: center;"><b>अगस्त 2023</b></p>	<p style="text-align: center;">23</p>	<p style="text-align: center;">31</p>	<p><b>दूर्वा भाग -1</b></p> <p>अध्याय – 4 : पतंग अध्याय – 5 : भालू अध्याय – 6 : झरना अध्याय – 7 : धनुष अध्याय - 8 : रूमाल अध्याय - 9 : कक्षा</p> <p><b>व्याकरण-</b></p> <p>(अ) लिंग (आ) वचन जी हाँ ,जी नहीं का प्रयोग अपठित गद्यांश पत्र लेखन</p>	<p><b>परियोजना कार्य</b> - जी हाँ , जी नहीं वाले शब्दों का प्रयोग</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b> <b>2 पोर्टफोलियो -10</b> <b>3 श्रवण /वाचन -10</b></p> <p style="text-align: center;"><b>आवधिक परीक्षा -2</b></p>
<p style="text-align: center;"><b>सितंबर 2023</b></p>	<p style="text-align: center;">23</p>	<p style="text-align: center;">31</p>	<p><b>दूर्वा भाग -1</b></p> <p>अध्याय –10 : गुब्बारा अध्याय – 11 : पर्वत अध्याय -12 : हमारा घर अध्याय -13 :कपड़े की दुकान अध्याय -14 : फूल</p> <p><b>व्याकरण-</b></p> <p>(अ) 'र' के विभिन्न रूप (आ) अनेक शब्दों के लिए एक शब्द अपठित पद्यांश, पत्र लेखन अनुच्छेद लेखन</p> <p style="text-align: center;"><b>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</b></p>	<p>परियोजना कार्य – 'र' के विभिन्न रूपों वाले शब्दों का प्रयोग</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b> <b>2 पोर्टफोलियो -10</b> <b>3 श्रवण /वाचन -10</b></p>

द्वितीय सत्र -2023-2024

<p>अक्टूबर / नवंबर 2023</p>	<p>18</p>	<p>24</p>	<p><b>दूर्वा भाग -1</b>  अध्याय -15 : बातचीत  अध्याय -16 : शिलांग से फ़ोन  अध्याय – 17 : तितली (कविता)  अध्याय -18 : ईश्वरचन्द्र  विद्यासागर  अध्याय -19 : प्रदर्शनी</p> <p><b>व्याकरण-</b>  सर्वनाम</p>	<p><b>परियोजना कार्य</b>  -  वार्तालाप संबंधी  लेखन,  सर्वनाम का प्रयोग</p>	<p><b>अर्द्ध वार्षिक परीक्षा -2023</b></p> <p><b>1 बहुविकल्पीय प्रश्न -10</b>  <b>2 पोर्टफोलियो -10</b>  <b>3 श्रवण /वाचन -10</b></p>
<p>दिसंबर 2023</p>	<p>22</p>	<p>30</p>	<p><b>दूर्वा भाग -1</b>  अध्याय -20 : चिट्ठी (कविता)  अध्याय – 21 : अंगुलिमाल (बोधकथा)  अध्याय – 22 : यात्रा की तैयारी</p> <p><b>व्याकरण-</b>  अपठित गद्यांश  नमूने के अनुसार वाक्य बदलो</p>	<p><b>परियोजना कार्य</b>  -  नमूने के अनुसार  वाक्य बदलो</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b>  <b>2 पोर्टफोलियो -10</b>  <b>3 श्रवण /वाचन -10</b></p> <p><b>आवधिक परीक्षा -3</b></p>



जनवरी 2024	20	27	<p><b>दूर्वा भाग -1</b></p> <p>अध्याय – 23 : हाथी (कविता )</p> <p>अध्याय -24 : डॉक्टर</p> <p>अध्याय - 25 : जयपुर से पत्र</p> <p><b>व्याकरण -</b></p> <p>अनुच्छेद लेखन</p>	<p><b>परियोजना कार्य-</b></p> <p>अनुच्छेद लेखन</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण /वाचन -10</b></p>
फरवरी 2024	22	30	<p><b>दूर्वा भाग -1</b></p> <p>अध्याय - 26 : बड़े चलो(कविता)</p> <p>अध्याय – 27 : व्यर्थ की शंका</p> <p>अध्याय -28 : गधा और सियार</p> <p><b>व्याकरण –</b></p> <p>(अ) अनेक शब्दों के लिए एक शब्द</p> <p>(आ) पत्र लेखन</p>	<p><b>परियोजना कार्य</b></p> <p>-</p> <p>पत्र लेखन</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण /वाचन -10</b></p> <p><b>आवधिक परीक्षा -4</b></p>
मार्च 2024	11	15	<p>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</p> <p><b>वार्षिक परीक्षा</b></p>		<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण /वाचन -10</b></p>

**नोट -**

1- निम्नलिखित पाठ वार्षिक परीक्षा में पूछे जाएँगे। (वार्षिक परीक्षा प्रश्न पत्र के लिए 10%अर्द्ध वार्षिक परीक्षा के पाठ शामिल है।)

- 1- कलम
- 2- कपड़े की दुकान
- 3- स्वर और व्यंजन
- 4- वचन

2- कला / कहानी / खेल / खिलौना समेकित शिक्षणशास्त्र का यथा संभव शिक्षण में प्रयोग करें।

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नवोदय विद्यालय समिति

कक्षा-6

विषय-हिंदी 'अ'

विषय कोड- 002

वार्षिक परीक्षा हेतु अंक भार विभाजन			
खंड 'अ'			
क्रमांक	विषय वस्तु एवं परीक्षा हेतु अंक विभाजन	उपभारंक	भार
	1.अपठितांश पठन कौशल गद्यांश व काव्यांश पर शीर्षक का चुनाव, विषय-वस्तु का बोध, भाषिक बिंदु / संरचना आदि पर बहुविकल्पीय प्रश्न (क) अपठित गद्यांश [विकल्प रहित] पाँच बहुविकल्पीय प्रश्न (ख) अपठित काव्यांश [विकल्प सहित] पाँच बहुविकल्पीय प्रश्न	1x5 1x5	10
	2. व्याकरण के लिए निर्धारित विषयों पर विषयवस्तु का बोध, भाषिक बिंदु /संरचना आदि पर बहुविकल्पीय प्रश्न	1x20	20
	3. पाठ्यपुस्तक वसंत भाग-1 (1) गद्य खंड (अ) वसंत भाग-1 से निर्धारित पाठों में से गद्यांश के आधार पर विषयवस्तुका बोध भाषिक बिंदु / संरचना आदि पर पाँच प्रश्न (ब) वसंत भाग 1 से निर्धारित पाठों के आधार पर विद्यार्थियों की चिंतन व मनन क्षमताओं का आकलन करने हेतु पाँच प्रश्न (2) काव्य-खण्ड (अ) वसंत भाग-1 से निर्धारित कविताओं में से पद्यांश के आधार पर विषयवस्तु का बोध भाषिक बिंदु / संरचना आदि पर पाँच प्रश्न (ब) वसंतभाग 1 में निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्य बोध परखने हेतु पाँच प्रश्न	1x5 2x5  1x5  2x5	30
	पूरक पाठ्यपुस्तक बाल रामकथा- पूरक पाठ्यपुस्तक बाल रामकथा के निर्धारित पाठों में से आठ बहुविकल्पीय प्रश्न पूरक पाठ्यपुस्तकबाल रामकथा के निर्धारित पाठों से दो लघूत्तरीय बोधात्मक प्रश्न	1x8 2x2	12
	4. लेखन (अ) अभिव्यक्ति की क्षमता पर केंद्रित औपचारिक अथवा अनौपचारिक विषयों में से किसी एक विषय पर पत्र (लगभग 80-100 शब्दों में) (ब) विभिन्न विषयों और संदर्भों पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिंदुओं पर आधारित समसामयिक एवं व्यावहारिक जीवन से जुड़े हुए तीन में से किसी एक विषय पर निबंध (लगभग150 शब्दों में)	1x4 1x4	08
	कुल		80
	आंतरिक मूल्यांकन		20
	सामयिक आकलन	5	
	बहुविध आकलन	5	
	पोर्टफोलियो	5	
	विषय समृद्धि क्रियाकलाप	5	

	कुल योग		100
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## नवोदय विद्यालय समिति

कक्षा-6  
हिंदी 'अ

विषय-

माह	कार्य दिवस	कालांश	विषय वस्तु या पाठ का नाम	क्रियाकलाप / परियोजना कार्य
अप्रैल 2023	21	25	वसंत भाग-1 1. वह चिड़िया जो-केदारनाथ अग्रवा 2. बचपन-कृष्णा सोबती बाल रामकथा 1. अवधपुरी में राम: व्याकरण- हिंदी भाषा बोलियों, लिपि हिंदी का मानक रूप भाषा-परिचय एवं प्रकार अपठित गद्यांश पत्र लेखन	१. अपने आस पास पाए जाने वाले किन्हीं पाँच पक्षियों के विषय में सचित्र जानकारी एकत्रित करें। 2। राम के जीवन से जुड़े स्थलों की वर्तमान भौगोलिक स्थिति की जानकारी संकलित करें।
जुलाई 2023	26	30	वसंत भाग-1 3. नादान दोस्त प्रेमचंद 4. चाँद से थोड़ी सी गप्प- शमशेर बाल रामकथा- 2. जंगल और जनकपुर 3. दो वरदान व्याकरण- वर्ण विचार- भेद, परिभाषा, उच्चारण स्थान .अनुस्वार- अनुनासिक	1. चाँद से संबंधित तीन कविताओं का सचित्र संकलन कीजिए। 2-सौर मंडल में कौन-कौन से ग्रह हैं उनके बारे में जानकारी एकत्र कीजिए।
अगस्त 2023	26	30	वसंत भाग-1 5 . साथी हाथ बढ़ाना- साहिर लुधियानवी एक दौड़ ऐसी भी (केवल पढ़ने के लिए) बाल रामकथा- 4. राम का वन गमन 5. चित्रकूट में भरत व्याकरण- विलोम शब्द अपठित काव्यांश	1-साथी हाथ बढ़ाना गीत का अभ्यास कर प्रार्थना सभा में प्रस्तुत करें। पर्यायवाची, विलोम शब्दों का चार्ट तैयार करना
आवधिक परीक्षा - 1				
सितंबर 2023	23	26	वसंत भाग-1 6. ऐसे ऐसे - विष्णु प्रभाकर 7. टिकट- अल्बम- सुंदरा बाल रामकथा- 6. दंडक वन में दस वर्ष 7. सोने का हिरण व्याकरण- शब्द- परिभाषा, भेद (स्रोत, रचना एवं अर्थ के आधार पर) निबंध-लेखन	ऐसे-ऐसे' एकांकी का सांस्कृतिक कार्यक्रम में मंचन करें। 3- किन्हीं 5 देशों की टिकटों को एकत्रित कर अपनी अभ्यास पुस्तिका में लगाएं

आवधिक परीक्षा - 2				
द्वितीय सत्र 2023-24				
अक्टूबर 2023	15	20	वसंत भाग-1 8. झाँसी की रानी-सुभद्रा कुमारी चौहान 9. जो देखकर भी नहीं देखते-हेलन केलर छूना और देखना (केवल पढ़ने के लिए) बाल रामकथा- 8. सीता की खोज व्याकरण- संज्ञा:- परिभाषा, भेद लिंग, वचन युग्म शब्द परीक्षा पूर्व पुनरावृत्ति	स्वतंत्रता संग्राम में किन्हीं 5 महिलाओं के भूमिका जानकारी एकत्र करिये। किन्हीं 5 विलुप्त जानवरों की सचित्र सूची बनायें।
अर्द्धवार्षिक परीक्षा				
नवंबर 2023	18	24	वसंत भाग-1 10. संसार पुस्तक है- पंडित जवाहरलाल नेहरू बाल रामकथा- 9. राम और सुग्रीव व्याकरण- विशेषण, क्रिया अपठित गद्यांश	तत्सम-तद्भव शब्दों का चार्ट निर्माण कीजिये।
दिसंबर 2023	20	25	वसंत भाग-1 S11. मैं सबसे छोटी होऊँ 12. लोकगीत-भगवतशरण उपाध्याय दो हरियाणवी लोकगीत (केवल पढ़ने के लिए) बाल रामकथा- 10. लंका में हनुमान व्याकरण- मुहावरे:- अर्थ एवं प्रयोग पत्र लेखन	माँ विषय पर 8 पंक्तियों की स्वरचित कविता लिखिए  अपने क्षेत्र का कोई एक कक्षा में सुनाइए
जनवरी 2024	15	20	वसंत भाग-1 13. नौकर- अनु वयोपाध्याय बाल रामकथा- 11. लंका विजय व्याकरण- वर्तनी - नियम (शुद्ध-अशुद्ध) परीक्षा पूर्व पुनरावृत्ति	महात्मा गांधी के साबरमती आश्रम का वर्णन अपने शब्दों में करें। 'घटते वन और बढ़ती जनसंख्या' विषय पर लेख लिखिए।
आवधिक परीक्षा - 3				
फरवरी 2024	25	30	वसंत भाग-1 14. वनके मार्ग तुलसीदास मत बाँटो इंसान को (केवल पढ़ने के लिए) 15. विनय महाजन बाल रामकथा- 12. राम का राज्याभिषेक व्याकरण- वाक्य-शुद्धि एवं संशोधन निबंध लेखन (पुनरावृत्ति)	'रामराज्य' विषय पर निबंध लिखें।  परीक्षा की तैयारी हेतु 25 प्रश्नों की प्रश्नोत्तरी बनायें।

आवधिक परीक्षा – 4			
मार्च 2024		सम्पूर्ण पाठ्यक्रम पुनरावृत्ति	
वार्षिक परीक्षा			

टिप्पणी - वार्षिक परीक्षा प्रश्न पत्र के लिए 10% अर्द्ध वार्षिक परीक्षा का पाठ्यक्रम सम्मिलित किया जाएगा। निम्नलिखित पाठ वार्षिक परीक्षा में पूछे जाएँगे-

1. वह चिड़िया जो-केदारनाथ अग्रवाल
2. चित्रकूट में भरत
3. दो वरदान

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: VI**

**SUBJECT: MATHEMATICS**

Unit No	Name of The Chapter / Unit	Marks	Periods
<b>TERM-I</b>			
1	BRIDGE COURSE	-	06
1	KNOWING OUR NUMBERS	14	08
2	WHOLE NUMBERS	10	08
3	PLAYING WITH NUMBERS	14	11
4	BASIC GEOMETRICAL IDEAS*	12	12
5	UNDERSTANDING ELEMENTARY SHAPES*	14	12
6	INTEGERS*	16	11
	Total	80	68
	Convert into 50	50	
	Internal Assessment	50	
	Grand Total	100	
	Term-I (Weightage)	40%	
<b>TERM- II</b>			
	FRACTIONS	14	12
8	DECIMALS	12	12
9	DATA HANDLING	10	10
11	ALGEBRA	12	06
10	MENSURATION	12	15
12	RATIO AND PROPORTION	12	10
TERM- 10%	SIGNIFICANT TOPICS* BASIC GEOMETRICAL IDEAS; UNDERSTANDING ELEMENTARY SHAPES; INTEGERS	8	10
	Total	80	75
	Convert into 50	50	
	Internal Assessment	50	
	Grand Total	100	
	Term-II(Weightage)	60%	

MONTH	NO OF DAYS	NO OF PERIODS	Weightage of Marks for the Unit / Chapter	Unit / Sub units / Topics / Chapters to be Covered	Details of Activity / Practical Projects to be given	Unit Tests /Formative Tests/ Assignment
JULY- 2023	22	6	14	<b>Bridge Course</b>	Activity-I Comparing Numbers and Explanation (OR) Preparation of place value chart	Assignment-1
		8		<b>Chapter1. KNOWING OUR NUMBERS:</b> <ul style="list-style-type: none"> <li>Comparing Numbers</li> <li>Shifting digits</li> <li>Place value table</li> <li>Indian System of Numeration</li> <li>International system of numeration</li> </ul>		
		8	<b>Dropped Topics:-</b> <ul style="list-style-type: none"> <li>Estimation</li> <li>Estimating to the nearest tens by rounding off</li> <li>Estimating to the nearest hundreds by rounding off</li> <li>Estimating to the nearest thousands by rounding off</li> <li>Estimating outcomes of number situations</li> <li>To estimate sum or difference</li> <li>To estimate products</li> <li>Using Brackets</li> <li>Expanding brackets</li> <li>Roman Numerals (PageNo.17-27)</li> </ul>			
		10	<b>Chapter2. WHOLE NUMBERS:</b> The Number Line Addition, Subtraction Multiplication of Whole Numbers	Activity-II  To verify that addition of whole numbers is commutative OR Addition/subtraction of whole numbers by using number line	PWT-I (17 JULY TO 19 JULY)	
			<b>Dropped Topics:-</b> Properties of whole numbers Patterns in whole numbers (PageNo.31-45) Maintain Portfolio Multiple Assessment: Quiz / Puzzle / Exit cards / Oral			



			test/Origami/PPT/Project/concept mapping/mind mapping etc		
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AUGUST-2023	23	11	14	<b>Chapter3.PLAYING WITH NUMBERS:</b> <ul style="list-style-type: none"> <li>• Factors and Multiples</li> <li>• Prime and Composite Numbers</li> <li>• Even and Odd Numbers</li> <li>• Tests for divisibility of numbers by 2,3,4,5,6,8,9,10,11</li> <li>• Common Factors and Common Multiples</li> <li>• Prime Factorization</li> <li>• Highest Common Factor(H.C.F)</li> <li>• Lowest Common Multiple(L.C.M)</li> </ul>	III) To find HCF of two numbers IV) To find LCM of two numbers (Source – Laboratory Manual – Elementary Stage)	Assignment-2
		<b>Dropped Topics:-</b> 3.6 Some more divisibility rules(PageNo.59-62)				
		12	12	<b>Chapter4.</b> <b><u>BASIC GEOMETRICAL IDEAS*:</u></b> <ul style="list-style-type: none"> <li>• Points</li> <li>• Line Segments</li> <li>• A Line</li> <li>• Intersecting Lines</li> <li>• Parallel Lines</li> <li>• Ray</li> <li>• Curves- Simple, Open and Closed</li> <li>• Interior and Exterior of closed curve</li> <li>• Polygons</li> <li>• Angles</li> </ul>	<b>Maintain Portfolio</b> Multiple  Assessment:  Quiz / Puzzle / Exit cards / Oral test / Origami/PPT/Project.	
<b>Dropped Topics:-</b> 4.11 Triangles,4.12 Quadrilaterals,4.13 Circles (PageNo.81-85)						
SEPTEMBER - 2023	2 3	12	14	<b>Chapter 5.</b> <b><u>UNDERSTANDING ELEMENTARY SHAPES*:</u></b> <ul style="list-style-type: none"> <li>• Measuring Line Segments</li> <li>• Types of Angles</li> <li>• Measuring Angles</li> <li>• Perpendicular Lines</li> <li>• Classification of Triangles based on Sides and Angles</li> <li>• Types of Quadrilaterals</li> <li>• Polygons</li> <li>• Faces, Edges and Vertices</li> </ul>	v) To form various Polygons by paper folding and to identify convex and concave polygons. vi) To establish the fact that triangle is the most rigid figure vii) To make a Parallelogram, Rectangle, Square and Trapezium using Set Squares	

				<b>Dropped Topics:-</b> 5.10 Three dimensional shapes (PageNo.108-112)	
		11	16	<b>Chapter 6. INTEGERS*:</b> <ul style="list-style-type: none"> <li>• Representation of Integers on Number Line</li> <li>• Ordering of Integers</li> </ul> Addition and Subtraction of Integers using Number Line	<b>Activity-</b> viii) On addition and subtraction of integers by using number line.
<b>HALF YEARLY EXAMINATION</b> (03.10.2023 to 14.10.2023)					

OCTOBER-2023	06	05	Introduction to Fractions			
			Autumn Break(23.10.2023 to 15.11.2023)			
NOVEMBER-2023	12	12	14	<p><b>Chapter7.FRACTIONS:</b></p> <ul style="list-style-type: none"> <li>• A Fraction</li> <li>• Fraction on the Number Line</li> <li>• Proper Fractions</li> <li>• Improper and Mixed Fractions</li> <li>• Equivalent Fractions</li> <li>• Simplest Form of a Fraction</li> <li>• Like Fractions</li> <li>• Comparing Fractions</li> <li>• Addition and Subtraction of Fractions</li> <li>• Word Problems based on Addition and Subtraction of Fractions</li> </ul>	ix)To Multiply the numerator and denominator with the same number in order to find equivalent fractions	Assignment-3
DECEMBER 2023	22	12	12	<p><b>Chapter 8. DECIMALS:</b></p> <ul style="list-style-type: none"> <li>• Decimals</li> <li>• Representing Decimals on Number Lines</li> <li>• Inter conversion of Fraction and Decimals</li> <li>• Place value in context of Decimals</li> <li>• Comparing Decimals</li> <li>• Addition and Subtraction of Decimals</li> </ul> <p>Word Problems based on uses of Decimals in our daily life</p> <p><b>Dropped Topics:-</b> 8.2 Tenths,8.3 Hundredths (PageNo.182-183)</p>	<p>x) To represent decimal number 0.35, 0.76, 0.09 by using graph paper sheet</p> <p>Maintain Portfolio, Multiple</p> <p>Assessment:</p> <p>Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project.</p>	PWT-III (07 DEC 2023 – 09 DEC 2023 )
		10	10	<p><b>Chapter 9.DATA HANDLING:</b></p> <ul style="list-style-type: none"> <li>• What is Data?</li> <li>• Organization of Data</li> <li>• Pictograph</li> <li>• Interpretation of Pictograph</li> </ul> <p><b>Dropped Topics:-</b> 9.6 Drawing a pictograph, 9.7 A bar graph, 9.7.1 Interpretation of a bar graph,</p>		

				9.7.2 Drawing a bar graph (Page No.194-204)		
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## NAVODAYA VIDYALAYA SAMITI

**CLASS: VI**

**SUBJECT: MUSIC**

1. Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
2. Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
3. Students explore Local Folk Culture
4. Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concepts with a broader vision.
5. Students are exposed to the integration of latest technology in music.

			<b>Main-Topics and Sub -Topics to be Covered</b>	<b>Projects/Art(Performing) Integrated Pedagogy- Activities Prescribed</b>	<b>Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)</b>
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APRIL /JUNE 2023	25	04	<p>1. National Anthem: “Jana Gana Mana...” with meaning.</p> <p>2. ‘Vande Mataram’ National Song</p>	<p><b>SUGGESTED ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>1. Word by word recitation of the song by teacher followed by students.</li> <li>2. Discussion of the meaning of the song.</li> <li>3. Recitation of tune by teacher followed by students.</li> </ol> <p><b>(Interdisciplinary Approach)</b></p> <p><b>Language &amp; Literature</b></p> <ol style="list-style-type: none"> <li>1. Associate the song with our country’s rich literal culture and poets.</li> <li>2. Students are asked to go through the writings of Rabindranath Tagore &amp; Bankim Chandra Chattopadhyay.</li> <li>3. Students are exposed to our country’s rich heritage and freedom struggle and the contributions of Rabindranath Tagore.</li> </ol>	<ol style="list-style-type: none"> <li>1. Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>2. Students are asked to prepare a write up about the history of our National Anthem</li> </ol>
JULY 2023		04	<ol style="list-style-type: none"> <li>1. Navodaya Song with meaning</li> </ol>	<p><b>SUGGESTED ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>1. Word by word recitation of the song by teacher followed by students</li> <li>2. Discussion of the meaning of the song</li> <li>3. Recitation of tune by teacher followed by students.</li> </ol> <p><b>(Interdisciplinary Approach)</b></p> <p><b>Social Science.</b></p> <p>Students are exposed to the history and importance of Navodaya Vidyalaya as in the country.</p>	<ol style="list-style-type: none"> <li>1. Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> </ol>



	23		<p>04</p> <p>1. Brief definition of 'Sruti" and "Tala"</p>	<ol style="list-style-type: none"> <li>1. Brief discussion about the foundational pitch of music.</li> <li>2. Discussion about the time frame of music.</li> <li>3. Students get an exposure to the world of rhythm.</li> <li>4. Life History of Purandara Dasa</li> </ol> <p><b>(Interdisciplinary Approach)</b></p> <p><b>Science</b></p> <ol style="list-style-type: none"> <li>1. Students are exposed to the term rhythm of the universe i.e. day, night, months, years etc. Through the scientific approach to the term of rhythm students will be able to understand the importance of rhythm in the universe to protect the life on the planet.</li> <li>2. Students will be able to understand the term cycle.</li> </ol>	<ol style="list-style-type: none"> <li>1. Students are asked to sing and clap as per the pitch and rhythm of songs.</li> <li>2. Students are asked to prepare a chart of srutivadyas and layavadyas</li> </ol>
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AUGUST 2023	19	03	3. Jhanda Geet	<ol style="list-style-type: none"> <li>1. Discussion about lyrics and its meaning</li> <li>2. Word by word recitation by teacher followed by student.</li> <li>3. Recitation of tune by teacher followed by students</li> </ol> <p><b>(Interdisciplinary Approach)</b> <b>Social Science</b> Students are exposed to the history of our National flag and its colour scheme and meaning.</p>	<ol style="list-style-type: none"> <li>1. Vocal Performance / Instrumental Performance to match the pitch and speed of a song.</li> <li>2. Students are asked to prepare a chart based on the topic “our National Flag”.</li> </ol>
SEPTEMBER 2023	23	02	4. Definition of “Swara	<ol style="list-style-type: none"> <li>1. Brief discussion about the concept of ‘swara’ in our music system.</li> <li>2. Students are exposed to the world of ‘rasa’ which is the impact of sound in our brain.</li> <li>3. Brief discussion about the concept of ‘Adhithala’ in our music system.</li> </ol> <p><b>(Interdisciplinary Approach)</b> <b>Science</b> 1. Students get exposed to the field of science where sound evokes emotions in our mind. 2. Students get exposed to the syllables of different music systems in the world</p>	<ol style="list-style-type: none"> <li>1. Question – Answer</li> <li>2. Prepare a chart on swaras in Carnatic music OR Hindusthani music</li> </ol>
		04	5. Prayer song in regional language	<ol style="list-style-type: none"> <li>1. Discussion about the song and its meaning</li> <li>2. Discussion about Human values</li> <li>3. Recitation of the song by teacher followed by the students</li> </ol> <p><b>(Interdisciplinary Approach)</b> <b>Value Education</b> Students get a chance explore the values such as devotion and dedication. Language &amp; Literature Students are exposed to the writings of the region.</p>	<ol style="list-style-type: none"> <li>1. Vocal Performance / Instrumental Performance to match the pitch and speed of a song.</li> <li>2. Students are asked to prepare a chart on regional poets and lyricist.</li> </ol>

OCTOBER 2023	14	<b>TERM I EXAM</b>		
NOVEMBER 2023	26	04	<p>7. Introduction of Music Instruments: Brief note on Harmonium</p> <p>Discussion about the sound production and making of the musical instrument.</p> <p><b>(Interdisciplinary Approach) :</b> <b>Science</b> Students get an exposure to the field of sound, its characteristics, frequency, pitch etc.</p> <p><b>Art &amp; Culture</b> Students explore the capabilities of humans to make such instruments to express their feelings and talent.</p>	<p>1. Question – Answer 2. Prepare a chart on the origin and evolution of keyed instruments.</p>
		04	<p>8. Community Song in Hindi language.</p> <p>1. Word by word recitation of the song by teacher followed by students 2. Discussion of the meaning of the song 3. Recitation of the tune of the song by teacher followed by students.</p> <p><b>(Interdisciplinary Approach):</b> <b>Social Science :</b> Students are asked to collect photographs of the freedom fighters of our country along with brief information about their life.</p>	<p>1. Vocal Performance (Recitation of Composition with proper notes, tempo and in proper rhythm). 2. Students who are not good at singing get an opportunity to be evaluated by Instrumental performance of the same. (Playing the tune with proper pitch, tempo, rhythm and peculiar style of the instrument being played by the student)</p>

DECEMBER 2023	12	02	Patriotic Song in Regional Language	<ol style="list-style-type: none"> <li>1. Word by word recitation of the song by teacher followed by students</li> <li>2. Discussion of the meaning of the song</li> <li>3. Recitation of the tune of the song by teacher followed by students.</li> </ol> <p><b>(Interdisciplinary Approach)</b> <b>Language &amp; Literature</b> Students get a chance to explore the field of regional poets and their works.</p> <p>Social science Students may explore the life of regional freedom fighters and their contributions.</p>	<ol style="list-style-type: none"> <li>1. Vocal Performance (Recitation of Composition with proper notes, tempo and in proper rhythm)</li> <li>2. Students are asked to prepare a chart on regional poets or freedom fighters.</li> </ol>
		03	10. A Brief note on Classical performing Arts of the region	<ol style="list-style-type: none"> <li>1. Discussion about classical performing arts of the state</li> </ol> <p><b>(Interdisciplinary Approach) :</b> <b>Arts &amp; Culture:</b> Students will get a chance to know about the classical performing arts prevalent in the state.</p> <p>Students explore the rich cultural background of the region.</p>	<ol style="list-style-type: none"> <li>1. Question – Answer</li> <li>2. Preparing a project on different performing art forms of the state.</li> </ol>
		<b>WINTER BREAK</b>			
JANUARY 2024	21	04	11. Introduction to Adi Tala in Carnatic music OR Keherwa in Hindustani Music	<ol style="list-style-type: none"> <li>1. Discussion about importance of Taal</li> <li>2. Exercise for counting Matras of TaalKeherwa OR Aditala (Carnatic Music) with clapping &amp; stamping</li> <li>3. Recitation of Bols (syllables) of the talas.</li> </ol> <p><b>(Interdisciplinary Approach)</b> <b>Mathematics:</b> Students are exposed to the calculation and divisions of musical beats.</p>	<p>Question – Answer about theoretical aspects of Tala Skill of clapping and stamping in Tala Recitation of Bols (Syllables of Tala).</p>

		04	12. Folk song in regional language	<p>Discussion about Song covering the type of song, special occasion when the song is sung, aesthetics of the song etc.</p> <p><b>PROJECTS(Interdisciplinary Approach)</b></p> <ol style="list-style-type: none"> <li>1. Language &amp; Literature: Students learn about the regional language and dialects.</li> <li>2. Art &amp; Culture: Students are asked to collect pictures and information regarding different festivals, folk songs and folk dances of the region</li> </ol>	<ol style="list-style-type: none"> <li>1. Vocal Performance/ Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>2. Project Work</li> </ol>
FEBRUARY 2024	22		REVISION OF ALL THE TOPICS & PRACTICAL EXAMS (VOCAL / INSTRUMENTAL)		
MARCH 2024	12		ANNUAL EXAMINATION		

- As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
- Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
- Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.

NAVODAYA VIDYALAYA SAMITI

CLASS – VI

SUBJECT: PHYSICAL EDUCATION

Standing and Standard Instructions:

1. Morning Jogging/Warm Up Exercises/ Mass Drills /Aerobics/Yoga and Meditation
2. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
3. Inter House Competitions as per Vidyalaya Calendar of Activities
4. Holding Periodical Cross-Country Race/Walk.
5. Trekking and Hiking Activities at least once in a year
6. Showing Live Matches to Children
7. Martial Arts / Self Defence Skills through Resource Persons
8. Fit India Movement activity should be conducted as per schedule
9. Special day must be celebrated i.e., Yoga Day, National Sport Day
10. ICT to be a part of the pedagogy to make learning enjoyable and joyful

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)			
APRIL 2023	25	04	Jogging and warming up. Callisthenic Exercise for coordination. Yogasana: Surya Namaskar, Trikonasana, Virabhadrasana	Recreation games (Minor games) Practice of Attention, Stand at-ease, Right, Left and About turns, Kadam tal, Marching	1.Personal Hygiene 2.Definition and Scope of Physical and Health Education	English: Who did Patrick's Homework Activity Name: Learning by doing joyfully	Children to collect lated newspaper cuttings
JULY- AUGUST 2023	48	09	Jogging and warming up. Callisthenic Exercise for coordination. ABC Exercise Battery Test (AAPHER Physical Fitness Test) Yogasana: Surya Namaskar, ,Vajrasana and Vupa Vajrasana	Selecting Students to appropriate games and sports based on battery test analysis. Initiation of practice.	1.Aims and objectives of Physical and Health Education. 2.Importance of exercise	English: A Game of chance Activity name: Musical Chair	1.Musical chair game will be organized in two parts. nd verbs will be given. 3.When the music starts, students will move around. When music stops, they will be given a puzzle with questions.

SEPTEMBER 2023	26	05	Jogging and warming up. Callisthenic Exercise for coordination. ABC Running Drills March past practice. Yogasana: Surya Namaskar, Baddha Padmasana, Vrikshasana	Practice of basic skills of Kho- Kho and Kabaddi and Basic movement s of Athletics (Running, Jumping and throwing)	1.Social Hygiene and its importance. 2.Rules and Regulations of Kho- Kho and Kabaddi	Mathematics: Whole Numbers  Activity name: Understanding Whole No by Badminton	B a d m i n t o n : The students to be asked to note down the scores of both teams.  All the natural numbers with Zero are called Whole numbers
OCTOBER / NOVEMBER 2023	27	04	Jogging and warming up. Jumping, Abdominal and Coordination Exercise , Martial Art (Basic defensive skill) Turns with Marching Yogasana: SuryaNamaska r, Sarvangasana Halasana	Implementation of basic defensive and offensive skills of Kho Kho and Kabaddi. Different Workouts for Improved movement s in Athletics	1. Awareness about food and nutrition. 2. Basic theories of Athletics – Track and Field Events.	Mathematics: Basic Geometrical ideas – Circles  Activity Name: Dribble with ball in a circle	Dribble basketball with a circle.
DECEMBER JANUARY 2023	45	08	Rhythmic Activities Gymnastics: Different types of roll and cart wheel Martial Art (basic defensive skills) Practice of light apparatus Pyramids, dumbbells, Hoops Yogasana: SuryaNamaska r, Gomukhasana, Padahastasana	Practice matches of Kho-Kho and Kabaddi Games  March Past Practice	1.Awareness about Diet, Environmental Hygiene 2. Measurement of Kho-Kho and Kabaddi Court.	Science: Components of Food  Activity Name: Pick and Run –Food Relay Race	The children will take turns pulling a food model picture from their teams grocery bag, running to their plate bags and inserting it in the correct one.
FEB / MARCH 2024	35	07	Practice of all above said activities. Yogasana: SuryaNamaskar, Chakrasana, Ustrasana	Battery Test (AAPHER Physical Fitness Test) Result Analysis.	1.Awareness about communicable diseases. 2.First Aid	Science: Components of Food -Balanced Diet Activity Name: Circular Dodge ball	Team will be asked to hit the complete set of Balance Diet (Carbohydrate, Protein, Fat, Vitamins, Minerals and Water.

NAVODAYA VIDYALAYA SAMITI

CLASS VI

SUBJECT: SCIENCE

Unit no	Name of the chapter /unit	PERIODS
2	Components of food	11
4	Sorting materials into groups	10
10	Motion and measurement of distance	10
7	Getting to know plants	10
8	Body movements	10
9	Living organisms and their surroundings	10
5	Separation of substances	10
11	Light, Shadows and reflection	6
12	Electricity and circuits	15
13	Fun with magnets	15
15	Air around us	10
	<b>Total</b>	<b>80 Marks</b>
	<b>INTERNAL ASSESMENT</b>	<b>20Marks</b>
	<b>GRAND TOTAL</b>	<b>100 Marks</b>



MONTH	NO OF DAYS	NO OF PERIODS	Main topic and sub topic to be covered	Activities projects /practical's experiments to be held specific assessment tools (suggested)	
July 2023	24	11	*2.Components of food.(Biology)	Activity :test for starch and test for proteins	
		<b>Periodic written test -1(17-19 July-2023)</b>			
		10	4. Sorting materials into groups(Chemistry)	Activity: All activities related to chapter	
AUGUST-2023	26	10	10. Motion and measurement of distances (Physics)	Activity: measuring the length of desk by hand span, class room by foot ,curved line with thread	
		10	*7. Getting to know plants (Biology)	Activity: stem function, Transpiration, fixation Flower parts dissection, what does leaf contains	
		3	<b>Revision</b>		
		<b>Periodic Written Test -2(21-23 August-2023)</b>			
September 2023	23	10	8. Body movements(Biology) Continued	Activity: Hinge joint, Making of Boat	
		13	<b>Revision For Term-1 Exam</b>		
October 2023	17	12	<b>Term-1 Exams ( 3 – 14 October-2023)</b>		
		5	5.Separation of Substances(Chemistry)	Activity: sedimentation decantation and filtration	
<b>Winter break 23-10-2023 to 15-11-2023</b>					
November 2023	15	5	Continuation of 5. Separation of substance	Activity: which dissolves more, sugar or salt?\	

		10	9. Living organisms and their surroundings (Biology)	Activity: stem cutting in rose, Mehndi
December 2023	24	6	11. Light shadows and reflection (Physics)	Activity: Pin hole camera, Kaleidoscope, light travels in straight line
		<b>Periodic written test -3 (7-9 December-2023)</b>		

December 2023		15	12. Electricity and circuits (Physics)	Activity: Different arrangements of electric cell and bulb, electric circuit, making of switch, making of tester, How steady your hand is?
January 2024	25	15	13. Fun with magnets (Physics)	Activity: Effect of magnet a paper clip hanging in air, magnetic poles, freely suspended bar magnet shows NS direction, single touch method, electric crane, electro magnet
		<b>Revision for PWT-4</b>		
February 2024	24	<b>Periodic Written Test -4 (1-3 Feb-2024)</b>		
		10	15. Air around us (Envi. Science)	Activity: making of firki, air supports combustion. oxygen and nitrogen are in the ratio of 1:4
		<b>Revision For Term-II Examination</b>		
March 2024	24	<b>Term- II Examination1 (March 14-27-2024)</b>		

**Note:**1. Activities should be performed when the lesson is being taught and should be integrated with the chapter as per the new pedagogical approach and NEP  
2.10% of the term syllabus (star marked chapters)should be revised and covered in the Term II question paper along with the entire Term II syllabus

Distribution of chapters:						
	PWT-1	PWT-2	TERM-1	PW,T-3	PWT-4	TERM-2
Chapter Nos	2*	4,10,7*	2,4,10,7*,8	5,9,11	12,13	2*(TERM-1) 5,9, 11,12.13.15
Bio	1*	1*	2*+1=3	1	0	3+2=5
Che	0	1	1	1	0	2
Phy	0	1	1	1	2	4
TOT	1	3	5	3	2	2*+11=13

**NAVODAYA VIDYALAYA SAMITI**

**CLASS-VI**

**SUBJECT-SOCIAL SCIENCE**

Chapter No	Chapter Title	Marks
	<b>History Our Past</b>	
Chapter 1	What, Where ,How & When	7
Chapter 2	From-Hunting Gathering to Growing Food	6
Chapter 3	In the earliest Cities	8
Chapter 4	What Books & Burials tell Us	9
Chapter 5	Kingdom- Kings & Early Republic	5
Chapter 6	New Questions & ideas	5
Chapter 7	Asoka, the emperor who gave up war	5
Chapter 8	Vital Villages & Thriving Towns	5
Chapter 9	Traders , Kings & Pilgrims	5
	<b>The Earth Our Habitat</b>	
Chapter 1	The Earth in the Solar System	7
Chapter 2	Globe-Latitudes & Longitudes	7
Chapter 3	Motions of the earth	5
Chapter 4	Maps	5
Chapter 5	Major Domains of the earth	6
Chapter 6	Major Landforms of the Earth	6
Chapter 7	Our Country India	6
Chapter 8	India-Climate, Vegetation & Wildlife	6
	<b>Social &amp; political Life</b>	
Chapter 1	Understanding Diversity	8
Chapter 2	Diversity & Discrimination	6
Chapter 3	What is Government	8
Chapter 4	Key Elements of a democratic Government	8
Chapter 5	Panchayati Raj	6

Chapter 6	Rural Administration	5
Chapter 7	Urban Administration	5
Chapter 8	Rural Livelyhood	5
Chapter 9	Urban Livelihood	6
	TOTAL	80+80 (Term I&II)

Month	No of Days	Period	Chapter Name	ACTIVITIES/PROJECTS/ PRACTICAL EXPERIMENTS TO BE HELD/ SPECIFIC ASSESSMENT TOOL(S) (SUGGESTED)
July 2023	25	20	1. What, Where ,How & When 2. From-Hunting Gathering to Growing Food 3. The Earth in the Solar System <b>PWT 1</b>	Map Skills a. Identification b. Labeling & Accuracy, Presentation/Neatness
August 2023	25	20	1. Understanding Diversity 2. In the earliest Cities 3. Globe-Latitudes & Longitudes <b>PWT 2</b>	Activity : Quiz
September 2023	24	20	1. Diversity & Discrimination 2. What is Government 3. What Books & Burials tell Us 4. Key Elements of a democratic Government	Chart Making
October 2023	9	6	<b>Term test 1</b> 1. Motions of the earth 2. Kingdom- Kings & Early Republic	
November	9	6	1. Maps 2. New Questions & ideas	Locating places on Map
December			1. Asoka, the emperor who gave up war 2. Panchayati Raj 3. Vital Villages & Thriving Towns 4. Major Domains of the earth <b>PWT 3</b>	Project Work / Discussion
January 2024	25	20	1. Traders , Kings & Pilgrims 2. Major Landforms of the Earth 3. Rural Administration 4. Urban Administration 5. Rural Livelihood	Debate/ Discussion a. Participation b. Knowledge Picture Collection/Collage making Role Play
Feb 2024	24	20	1. New Empires & Kingdoms 2. Our Country India 3. Buildings Paintings & Books 4. India-Climate, Vegetation & Wildlife 5. Urban Livelihood <b>PWT 4</b>	Scrap Book / Visit to Historical place a. Observation b. Understanding c. Application of Knowledge
March 2024	25	12	Revision <b>Term test 2</b>	

NAVODAYA VIDYALAYA SAMITI

CLASS- VII

SUBJECT: ART (VISUAL)

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands On Activities Prescribed
APRIL-2023	22	8	<b>DEFINITIONOFFINEARTS</b> Different types of visual arts - Painting, Sculpture, Applied art, Craft, Imagesofpaintings, sculptures, applied art-prints etc., pot painting, pottery making, etc. canbeshowntostudents.	Pencil, Colourand Clay tools.	Sketches of basic Geometrical shapes(2D,3D)	Identification of Art forms andtoolsand materials required to present particular art form.
JULY2023	25	8	<b>Introduction of page layout for preparation of greeting cards.</b>	Pencil, Colourand Clay tools	Sketches of basic Geometrical shapes(2D,3D)	Identification of different coloursand shades.

AUGUST 2023	26	8	<p><b>UNDERSTANDING ELEMENTS OF ARTS:</b> Theory and practical both should be learnt simultaneously by students.</p> <p><b>iv.</b> Lines : Types and characteristics of line: straight lines, curve lines, horizontal lines, vertical line, circular &amp; angular lines,</p> <p><b>v.</b> Colour: Primary, secondary and tertiary colours.</p> <p><b>vi.</b> Form: Different types of forms</p> <ol style="list-style-type: none"> <li>1. Man-made forms</li> <li>2. Geometrical forms</li> <li>3. Observation of nature</li> </ol> <p>(g) Observation of objects</p> <p>(h) Still life drawings</p> <p>(i) Drawings of birds</p> <p>(j) Drawings of Animals</p> <p>The Perspective Theory, Light &amp; Shade can be taught with the effective use of the above mentioned areas</p>	Pencil, Colour and geometrical tools.	Eastern & western paintings of Masters, various styles of paintings and different folk and traditional forms can be given for understanding the content	<p>Drawing miniatures/ Masters Paintings/ Anyone Traditional Arts can be given for the students.</p> <p>Medium of activity: Any medium like Water colour / Poster colour/ Fabric colour/ Acrylic colour can be used)</p>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">SEPTEMBER 2023</p>	<p style="text-align: center;">24</p>	<p style="text-align: center;">8</p>	<p><b>UNDERSTANDING BASIC SHAPES:</b></p> <p>Students can see the geometrical forms in the surroundings of their Vidyalaya. Study of nature colours from different forms. Colour study for still life background drapery and objects. Illustrations of animals, birds with pen and ink.</p> <p>Observe keenly and draw natural objects both living and non-living things such as Trees, Birds, Plants, Flowers, Animals, fruit etc. Outdoor Sketching, Still life compositions can be given to understand and hone the skills for drawing various shapes</p>	<p>Poster, Water Colour, Pencil and Brush.</p> <p>OR</p> <p>Digital Tools &amp; Software</p>	<p>2D paintings of various Geometrical shapes (Math's Park related model making Activity, Rangoli Competitions )</p> <p>And figures. OR</p> <p>Google Sketch up software can be given through a Smart room based Activity</p>	<p>Computer aided tools or applications (Eg. Google Sketchup, Paint, Inkscape)</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">OCTOBER 2023 / NOVEMBER 2023</p>	<p style="text-align: center;">30</p>	<p style="text-align: center;">10</p>	<p style="text-align: center;"><b>Submission of assignments TERM 1 EXAMINATION</b></p> <p><b>UNDERSTANDING 3D THROUGH CLAY:</b></p> <p>Prepare simple pots, birds or any kind of object by using clay coil/paper pulp, coil etc.</p> <p>Lifestudy</p> <p>Students primarily practice drawing seeing live models.</p> <p>g) Study of the human forms.</p> <p>h) Observation</p> <p>i) Figure composition</p> <p>j) Model Drawing</p> <p>k) Human anatomy</p> <p>l) Composition of Objects Video presentation/Photos/ computer / books may be used.</p> <p>Pottery, toys, puppets, local area handicrafts should be introduced and students be given the opportunity to interact with professional and traditional artists.</p>	<p>Clay / Paper Pulp / Pop/Any Other material available in Art Room.</p>	<p>Models 2D and 3D Paintings of daily life activities.</p> <p>Blender software and 3D printing possibilities can be discussed in the class</p>	<p>Demonstration of Paintings and Clay models, models using paper pulp by the students. Students may be shown the latest 3D printing activity videos in Smart class</p>

<p>DECEMBER 2023</p>	<p>25</p>	<p>8</p>	<p><b>UNDERSTANDING ELEMENTS OF ARTS</b></p> <p>Students can be given exercises of printing with colours using actual objects such as, coin, rough surfaces of leaves and trees, pieces of vegetable like potato, ladies' finger etc. and asked to find different kinds of forms</p> <p><b>Landscape painting</b></p> <p>History of Landscape Painting.</p> <p>Representational, Impressionistic and Abstract.</p> <p>Studying the paintings of masters Raja Ravivarma, M.F. Hussain, S M Pandit, D P Roy Chowdary, Amritha Shirigil, S.M. Raza.</p> <p><b>Types of Paintings</b></p> <p>Kerala mural paintings, Kalamkari paintings, Kondapalli Bommalu, Leather Puppet Art, Madhubani Paintings, Nirmal Paintings, Patta Chitra Paintings, Rajasthani Miniature Painting, Tanjore Painting, Glass Painting etc</p>	<p>Different Mediums</p> <p>Pencil, Water Colour, Acrylic Colour</p>	<p>Visual enhancement of elements in the subject or topic under pursuit with the help of various structures.</p>	<p>Group Activity in the form of preparation of various structural elements mentioned with reference to the story or poem discussed in class.</p>
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JANUARY 2024	20	6	<p><b>CRAFTWORK:</b></p> <p>Collage painting. Taking different colour papers, cutting them into different shapes with scissors. Using newspapers, leaves, etc. Making Collage with items like pencil shavings, wooden ice cream sticks, toothpicks, ear buds, etc.</p> <p><b>Visual Art Design:</b></p> <ul style="list-style-type: none"> <li>• Identify the goal of your poster.</li> <li>• Introduction of Designs</li> <li>• Greeting Card Designs</li> <li>• Book Cover Designs</li> <li>• Sweet Box Designs</li> <li>• Sticker and stenciling.</li> <li>• Composition and Design</li> <li>• Pick a relevant colour scheme.</li> </ul>	Any suitable material	Models (2D, 3D), Sculpting.	<p>Evaluation can be done based on their observation and creative identity based on minimum craft in the selected medium.</p> <p>Models from paper/Clay/formsheet or other waste materials</p>
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FEBRUARY 2024	26	8	<p><b>UNDERSTANDING PRINT AND DESIGN:</b></p> <p>Concept of design and print making. Preparation of Design on card board block and designing and printing on paper.</p> <p>Introduction to design and colouring them in monochrome as well as multi-colour, Stencil</p> <p>Photography with cell phone. Brief study on taking photographs of your school programs with cell phones.</p> <p>Compose the object with light and shade carefully.</p> <p>And also take photographs in three dimensional angles.</p> <p>And also take photograph at eye level carefully (It should not be above eye level or below eye level)</p> <p>Introduction to the basics of the four elements of Photography: light, color, composition, and subject.</p>	<p>Poster</p> <p>Water Colour</p> <p>Printing Ink</p> <p>Pencil Colour and Geometrical tools.</p> <p>Mobile with editing software</p>	<p>Printing of art and shapes.</p>	<p>Printing of design (Kalamkari, Block Printing Design etc., and Stencil Cutting) by the students.</p> <p>Mobile / Computer</p>
MARCH 2024	<b>TERM 2 EXAMINATION</b>					

**NB:** National Education Policy, 2020 lays emphasis on multi-disciplinary and holistic education across all the subjects with the help of 'Art in Education' concept in order to ensure simplicity, unity and integrity fall knowledge. Hence, effort may be envisioned and undertaken to encompass art in education concepts across subjects. Students need to submit portfolio of assignments at the end of the academic year for Internal Evaluation. Also the students should be encouraged to learn local art forms and its documentations with various Android and Windows based free audio video editing tools in view of Art integrated learning with other subject areas where ever possible.

NAVODAYA VIDYALAYA SAMITI

CLASS: VII

SUBJECT: COMPUTER

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests /Formative Tests/Assignment
APRIL 2023	22	08	10 M	<b>INTRODUCTION TO NETWORK</b> d) What is a network? e) Types of Network f) What is Network Cabling? g) Types of cables used in networks h) Computer network components	Learn about different types of cables used in networking.  For example, the students can observe and understand the types of cables used in	PWT-01
			10 M	<b>INTRODUCTION TO INTERNET</b> i) What is an internet? j) Applications of internet.	Computer lab for networking.  Differentiate between World Wide Web and internet.	
JULY 2023	13	04		<b>INTRODUCTION TO INTERNET</b> k) Web Browsers l) Search engines. m) World Wide Web. n) Saving information from internet.	<b>Assignment:</b> Prepare a Word document , download pictures and data from internet and paste in this document	
JULY/AUGUST	25	08	20 M	<b>WORKING WITH EXCEL</b> o) Introduction workbook & Worksheet use in day to day life. p) Steps to start excel q) Components of excel screen r) Various data types s) Table Creating in MS Excel t) Cell reference in MS Excel u) Functions in MS Excel	Open an Excel work book and do the following work:- • Name the excel work book • Create different sheets in it • Rename all the	PWT-02

				v) Sorting of Data in MS Excel w) Filtering Data in MS Excel x) Conditional Formatting y) Protection of Workbook & Worksheet	sheets <ul style="list-style-type: none"><li>• Prepare a table which consists of marks of 25 students</li></ul>	
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AUGUST/SEPTEMBER 2023	31	12	10 M	<p><b>WORKING WITH POWER POINT</b></p> <ul style="list-style-type: none"> <li>• What is power point?</li> <li>• Insert a new slide.</li> <li>• Insert an image.</li> <li>• Word art.</li> <li>• Audio and video.</li> <li>• Transitions in slide.</li> <li>• Custom animations.</li> </ul>	Prepare a power point presentation and include all the listed activities	
			10 M	<p><b>ELECTRONIC MAIL:</b></p> <ul style="list-style-type: none"> <li>✓ Advantages and disadvantages of social media/sites</li> <li>✓ Creating Gmail Account</li> <li>✓ Features of Gmail Account</li> <li>✓ Compose Mail</li> <li>✓ Upload &amp; Attachment</li> <li>✓ Downloading</li> <li>✓ Forwarding and Reply</li> <li>✓ Recipient</li> </ul>	Students have to create their email id. Open their Email-Id , attach documents and send mail to their friends	
<b>MID TERM-1</b>						
OCTOBER/NOVEMBER 2023	18	06	10 M	<p><b>GOOGLE DRIVE:</b></p> <ul style="list-style-type: none"> <li>• Create new folder</li> <li>• New file upload</li> <li>• New folder upload</li> <li>• Google sheet</li> <li>• Google form</li> <li>• How to create a sharable link</li> <li>• Remove a file from Google drive</li> </ul>	Open the Gmail-id,  Open the Google drive and do all the given activities.	PWT-03
			10 M	<p><b>COMPUTER SECURITY:</b></p> <ul style="list-style-type: none"> <li>e) Threats to Computer</li> <li>f) Virus and its Types</li> <li>g) Antivirus</li> <li>h) Software and Types of Software</li> <li>i) Firewall and its use</li> <li>j) Cyber Crime</li> <li>k) Backup and Restore</li> <li>l) Cyber Law and its importance</li> </ul>	Prepare a power point presentation about cyber safety and security	

DECEMBER 2023/JANUARY 2024	44	15	20 M	<b>MULTIMEDIA-I:</b> <ul style="list-style-type: none"> <li>• Introduction to Multimedia</li> <li>• Definition and use of Multimedia</li> <li>• Hardware and Software Required</li> <li>• Media Player</li> <li>• How to open and use</li> <li>• Sound Recorder</li> </ul>	Prepare an assignment about multimedia and its use.  Open internet , download and install a movie maker software, and work on it	PWT-04
				<b>MULTIMEDIA-II:</b> <ul style="list-style-type: none"> <li>h) Movie Maker</li> <li>i) Inserting Image</li> <li>j) Setting Timeline</li> <li>k) Publishing Movie</li> </ul>		
<b>FEBRUARY - REVISION</b>						
<b>MARCH YEARLY EXAMINATION</b>						

**Note:** For Term-II/Yearly-Exam Note: For Term-II/Yearly-Examination Question-Paper consisting of 10% of 1st term covering significant topics plus entire syllabus of 2<sup>nd</sup> term.



## NAVODAYA VIDYALAYA SAMITI

**CLASS: VII**

**SUBJECT: English**

<b>S. No.</b>	<b>Sections</b>	<b>Marks allotted</b>
1	Section A - Reading	15 Marks
2	Section B - Writing	15 Marks
3	Section C - Grammar	10 Marks
4	Section D - Literature	40 Marks
	<b>Total Marks</b>	<b>80 Marks</b>
	Internal Assessment	20 Marks
	<b>Grand Total</b>	<b>100 Marks</b>

Month	No. of days	No of Periods	Main topics and Sub-topics to be covered	Grammar activities / Composition	Activities/Projects/Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)
April 2023	22	28	<p><b>Prose</b></p> <p>1. Three Questions</p> <p>2. A Gift of Chappals</p> <p><b>Poetry</b></p> <p>1. The Squirrel</p> <p>2. The Rebel</p> <p><b>Supplementary Reader</b></p> <p>1. The Tiny Teacher</p>	<p>1. Introduction to number and person of noun</p> <p>2. Subject-Verb Agreement</p> <p>3. Simple Paragraphs</p> <p>4. Reading unseen Passages.</p>	<p>1. Art/Sports/Toy/Story based activities related to the topics/chapters</p> <p>2. Imagining yourself as the character in the story and narrating.</p> <p>3. Composing simple poems. Ex: Adding some similar lines to the poem The Rebel)</p>
July 2023	23	28	<p><b>Prose</b></p> <p>3. Gopal &amp; the Hilsa Fish</p> <p>4. The Ashes That Made Trees Bloom</p> <p><b>Poetry</b></p> <p>3. The Shed</p> <p><b>Supplementary Reader</b></p> <p>2. Bringing up Kari</p>	<p>1. Framing Questions to the given statements.</p> <p>2. Reported Speech</p> <p>3. Formal Letters</p> <p>4. Developing paragraphs with Hints</p>	<p>1. Dramatization/skit</p> <p>2. Developing Visual input into story (Group Activity)</p> <p>3. Making Fact files about elephants and ants.</p> <p>4. Narrating a fictitious story about a haunted house.</p> <p>5. Composing a Simple Poem on a Haunted House)</p> <p>6. Story telling Pedagogy (Bringing Up Kari)</p>

Periodic Written Test - 1 / UT1 - From 17 July 2023 to 19 July 2023

August 2023	23	28	<p><b>Prose</b></p> <p>5. Quality</p> <p><b>Poetry</b></p> <p>4. Chivvy</p> <p><b>Supplementary Reader</b></p> <p>3. The Desert</p> <p>4. The Cop and the Anthem</p>	<p>1.Active and Passive Voice</p> <p>2. Conditional Clauses-1</p> <p>3. Informal Letters</p> <p>4. Re-ordering jumbled words into sentences and jumbled sentences into a paragraph/story</p>	<p>1. Just A Minute - A Moral Talk</p> <p>2. Narrating a funny personal experience of cooking, learning a new skill etc.</p> <p>3. Conducting a survey of the households on the campus (Whether they prefer buying branded/not branded goods, why etc.)</p> <p>4. Making Questionnaire for the survey</p>
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**Periodic Written Test 2 / UT2 - From 21 August 2023 to 23 August 2023**

September 2023	24	30	<p><b>Prose</b></p> <p>6. Expert Detectives</p> <p><b>Poem</b></p> <p>5.Trees</p> <p><b>Supplementary Reader</b></p> <p>5. Golu Grows a Nose</p> <p>6. I Want Something in a Cage</p>	<p>1. Tenses and usages (simple Present and Simple past)</p> <p>2. Notice Writing</p> <p>4. Dialogue Writing</p> <p>5. Phrasal verbs</p> <p>6. Phonetic sounds and syllables</p>	<p>1. Role play</p> <p>2. Adding more lines to the poem ‘Trees’ and composing similar poems</p> <p>3. Story telling+ toy-based pedagogy (Golu Grows a Nose)</p>
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**TERM-I EXAM – From 03 October 2023 to 14 October 2023**

October/ November 2023	20	28	<p><b>Prose</b> 7. The Invention of Vita - Wonk</p> <p><b>Poetry</b> 6. Mystery of the Talking Fan</p> <p><b>Supplementary Reader</b> 7. Chandni</p>	<p>1. Tenses (Continuous tenses and Present perfect)</p> <p>2. Active and Passive Voice</p> <p>3. Report Writing</p> <p>4. Notice Writing</p> <p>5. Framing different phrases with the same word, finding meanings of those phrases and using in sentences. (Eg: tip the boat over, finger tips, tip a waiter etc.)</p>	<p>1. Interviewing friends</p> <p>2. Reporting School Programs</p> <p>3. Speaking on Significance of Freedom, why Caging birds/animals is wrong</p> <p>4. Playing the Role of Detective and finding details of a person with a number of questions</p> <p>5. Survey about a general topic (Eg: page 95 and 96)</p> <p>6. Presentation of Conversation between mechanic and fan and similar ones</p>
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Periodic Written Test 3 / UT3 - From 07 December 2023 to 09 December 2023

December 2023	24	30	<p><b>Prose</b> 8. Fire: Friend and Foe</p> <p><b>Poetry</b> 7. Dad and the Cat and the Tree</p> <p><b>Supplementary Reader</b> 8. The Bear Story</p>	<p>1. Present Continuous and Past Continuous and contrast of simple present and present continuous tense</p> <p>2. Reporting requests, commands and questions</p> <p>3. Story Writing</p> <p>4. Describing visuals</p> <p>5. Rearranging Jumbled words into sentences</p>	<p>1. Speaking Assignments</p> <p>2. Narrating Incidents.</p> <p>3. Speeches on fire safety and other disasters management.</p>
January 2024	21	26	<p><b>Prose</b> 9. A Bicycle in Good Repair</p> <p><b>Poetry</b> 8. Meadow Surprises</p> <p><b>Supplementary Reader</b> 9. A Tiger in the House</p>	<p>1. Modals</p> <p>2. Combining two sentences into single sentences</p> <p>3. Word forms with prefixes and suffixes</p> <p>4. Formal letters: Letters of Complaints</p>	<p>1. Sharing an experience of learning bicycle ride or other skills</p> <p>2. Speaking on observations of nature</p> <p>3. Composing simple poems on the theme of nature</p> <p>4. Narrating the experience of visiting to a zoo</p>
<p>Periodic Written Test 4 / UT4 - From 01 February 2024 to 03 February 2024</p>					

<b>February 2024</b>	23	28	<p><b>Prose</b> 10.The Story of Cricket</p> <p><b>Poetry</b> 9.Garden Snake</p> <p><b>Supplementary Reader</b> 10.An Alien Hand</p>	<p>1. Present Perfect and Past Perfect and Present Perfect Continuous tense.</p> <p>2. Conditional Clauses-II</p> <p>3. Adverbs</p> <p>4. Word Puzzles</p>	<p>1. Fact File- Amazing Facts in Cricket (Collection of Pictures and World Records of Cricketers, Sports based Pedagogy)</p> <p>2. Listening to Motivational Talks</p> <p>3. Collecting information on Mars Missions and other space missions like Mangalyaan, Chandra Yaan 2 etc. and presenting in the class</p> <p>4. Presenting various facts about Celestial bodies</p>
<b>March 2024</b>	12	18	<b>Revision for Term – II Exam</b>		
<b>TERM- II EXAM - From 14 March 2024 to 27 March 2024</b>					

**NOTE:**

- Relevant unit from workbook may be taken up.
- Internal Assessment as per guidelines given by CBSE/NCERT may be done
- Any changes in the syllabus, if announced by CBSE / NCERT during the academic year 2023-24 has to be incorporated in the split up syllabus by the concerned teacher and principal accordingly.
- Classroom transactions may be corresponding to NEP-2020.

## नवोदय विद्यालय समिति

कक्षा : सातवीं

विषय : हिंदी (पाठ्यक्रम - ब )

क्रम संख्या	अध्याय / इकाई का नाम	उप भारांक	भारांक
01	(अ) अपठित गद्यांश	5x1= 5	10
	(आ) अपठित पद्यांश	5x1=5	
02	व्याकरण - पाठ्य पुस्तक से पाठ्यक्रमानुसार	20x1=20	20
03	दूर्वा भाग -2		
	(अ) पठित गद्यांश पर आधारित	1+1+1+1+1=5	10
	(आ) पठित पद्यांश पर आधारित	1+1+1+1+1=5	
	पाठ्य पुस्तक पर आधारित प्रश्न - बहुविकल्पीय प्रश्न- लघु उत्तरीय प्रश्न - d) गद्य खंड - (आ) पद्य खंड -	8x1=8  6X2= 12 6X2= 12	08  24
04	रचनात्मक लेखन - (अ)पत्र लेखन (आ)अनुच्छेद लेखन	1x4=4 1x4=4	08
	कुल अंक	80	80
	आंतरिक मूल्यांकन	20	
	समेकित योग	100	

समेकित योग					100				
PWT-1	PWT-2	TERM-1	INT.ASS.	TOTAL	PWT-3	PWT-4	TERM-2	INT.ASS.	TOTAL
40	40	80	20	100	40	40	80	20	100

## नवोदय विद्यालय समिति

कक्षा : सातवीं

विषय : हिंदी (पाठ्यक्रम-ब)

प्रथम सत्र -2023-2024				
माह का नाम	दिनों की संख्या	कालांशों की संख्या	पाठ का नाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजना कार्य / परीक्षा
अप्रैल 2023	22	30	<p>दूर्वा भाग -2</p> <p>1-चिड़िया और चुरुंगुन (हरिवंशराय बच्चन)</p> <p>2- सबसे सुंदर लड़की (विष्णु प्रभाकर)</p> <p>3- मैं हूँ रोबोट (राजीव गर्ग)</p> <p>व्याकरण – वर्ण ,शब्द ,संज्ञा एवं संज्ञा के भेद</p>	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।



जुलाई 2023	22	30	<p><b>दूर्वा भाग -2</b></p> <p>4 - गुब्बारे पर चीता (प्रेमचंद)</p> <p>5 - थोड़ी धरती पाऊँ(सर्वेश्वरदयाल सक्सेना)</p> <p><b>व्याकरण</b> – सर्वनाम एवं उसके छः भेद, कर्म के आधार पर क्रिया के भेद, पर्यायवाची शब्द ,मुहावरे, युग्म शब्द (पाठ संबंधी), पत्र लेखन,अपठित गद्यांश</p>	<p>क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।</p> <p><b>आवधिक परीक्षा -1</b></p>
अगस्त 2023	23	31	<p><b>दूर्वा भाग -2</b></p> <p>6 - गारो (लोककथा)</p> <p>7 - पुस्तकें जो अमर हैं( मनोज दास)</p> <p>8- काबुलीवाला (रवीन्द्रनाथ टैगोर)</p> <p><b>व्याकरण</b> – वचन,प्रत्यय,द्वित्व क्रिया,विलोम शब्द,समानार्थी शब्द,विराम चिह्न, अनुच्छेद लेखन,अपठित पद्यांश</p>	<p>क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।</p> <p><b>आवधिक परीक्षा -2</b></p>
सितंबर 2023	23	31	<p><b>दूर्वा भाग -2</b></p> <p>9- विश्वेश्वरैया (आर . के . मूर्ति)</p> <p><b>व्याकरण</b> -वाक्य रचना ,वाक्य विश्लेषण (उद्देश्य,विधेय),विशेषण,विशेषण बनाना,लिंग, लिंग परिवर्तन, वार्तालाप लेखन</p> <p><b>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</b></p>	<p>क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।</p>

**द्वितीय सत्र -2023-2024**

अक्टूबर /नवंबर 2023	18	24	<p><b>दूर्वा भाग -2</b></p> <p>10- हम धरती के लाल (शील)</p> <p>11- पोंगल (संकलित)</p> <p><b>व्याकरण</b> - मुहावरे लेखन अर्थ सहित, विशेषण,वाक्य रचना एवं प्रयोग (द्वित्व शब्द), वाक्य परिवर्तन(अर्थ की दृष्टि से), पुनरावृत्ति</p>	<p><b>अर्द्ध वार्षिक परीक्षा 2023</b></p>
दिसंबर 2023	22	30	<p><b>दूर्वा भाग -2</b></p> <p>12- शहीद झलकारीबाई (संकलित)</p> <p>13- नृत्यांगना सुधा चंद्रन (रामाज्ञा तिवारी)</p> <p><b>व्याकरण</b> - युग्म शब्द, ध्वन्यात्मक शब्द, मुहावरे लेखन, विलोम शब्द, औपचारिक पत्र</p>	<p>क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।</p> <p><b>आवधिक परीक्षा -3</b></p>
जनवरी 2024	20	27	<p><b>दूर्वा भाग -2</b></p> <p>14- पानी और धूप (सुभद्रा कुमारी चौहान)</p> <p>15- गीत (केदारनाथ अग्रवाल)</p> <p><b>व्याकरण</b> - उपसर्ग, प्रत्यय का प्रयोग, शब्द संपदा, शब्दों का वाक्यों में प्रयोग</p>	<p>क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।</p>
फरवरी 2024	22	30	<p><b>दूर्वा भाग -2</b></p> <p>16- मिट्टी की मूर्तियाँ (निबंध -अतिरिक्त पठन हेतु -जया विवेक)</p> <p>17- मौत का पहाड़ (चित्रकथा)</p> <p>18- हम होंगे कामयाब एक दिन (गीत -अतिरिक्त पठन हेतु -गिरिजा कुमार माथुर)</p> <p><b>व्याकरण</b> -विराम चिह्न ,प्रश्नार्थक सर्वनामों का प्रयोग , अनुच्छेद लेखन, पत्र लेखन</p>	<p>क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।</p> <p><b>आवधिक परीक्षा -4</b></p>
मार्च 2024	11	15	<p><b>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</b></p> <p><b>वार्षिक परीक्षा</b></p>	

**नोट - 1-** निम्नलिखित पाठ वार्षिक परीक्षा में पूछे जाएँगे। (वार्षिक परीक्षा प्रश्न पत्र के लिए 20 % अर्द्ध वार्षिक परीक्षा के पाठ शामिल हैं।)

- 1- थोड़ी धरती पाऊँ (सर्वेश्वरदयाल सक्सेना)
  - 2 - काबुलीवाला (रवीन्द्रनाथ टैगोर)
  - 3- कर्म के आधार पर क्रिया के भेद
  - 4- वाक्य विश्लेषण (उद्देश्य, विधेय)
- 2- कला / कहानी / खेल / खिलौना समेकित शिक्षणशास्त्र का यथा संभव शिक्षण में प्रयोग करें।

### विषय संवर्धक क्रियाकलाप / Subject Enrichment Activities

माह का नाम	पाठ का नाम	क्रियाकलाप / परियोजना कार्य	आंतरिक मूल्यांकन
अप्रैल 2023	<p>1- चिड़िया और चुरुंगुन (हरिवंशराय बच्चन)</p> <p>2- सबसे सुंदर लड़की (विष्णु प्रभाकर)</p> <p>3- मैं हूँ रोबोट (राजीव गर्ग)</p>	<p>1- अपने आस-पास दिखाई देने वाले पशु-पक्षियों के बारे में जानकारी एकत्रित करें।</p> <p>2- आपके हिसाब से अमीरी और गरीबी के अंतर को कैसे दूर किया जा सकता है ? इसके उपायों की सूची बनाइए।</p> <p>3- रोबोट कई आकार - प्रकार के होते हैं, पत्रिकाओं और समाचार-पत्रों से उनके चित्र और मनपसंद लेखों को एकत्रित करके उनकी सूची बनाइए।</p>	<p>1 बहुविकल्पीय प्रश्न -10</p> <p>2 पोर्टफोलियो -10</p> <p>3 श्रवण / वाचन -10</p>

<p style="text-align: center;"><b>जुलाई 2023</b></p>	<p>4-गुब्बारे पर चीता (प्रेमचंद)</p> <p>5 - थोड़ी धरती पाऊँ (सर्वेश्वरदयाल सक्सेना)</p>	<p>1-सड़क सुरक्षा ,प्रदूषण और शिक्षा के बारे में विज्ञापन बनाकर अपने मित्रों के साथ मिलकर उस पर चर्चा करें।</p> <p>2-आपके घर के पास कौन-कौन से पेड़-पौधे, पशु-पक्षी आमतौर पर नज़र आते हैं? उनके नामों की सूची बनाइए।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p style="text-align: center;"><b>अगस्त 2023</b></p>	<p>6 - गारो (लोककथा)</p> <p>7 - पुस्तकें जो अमर हैं( मनोज दास)</p> <p>8- काबुलीवाला (रवीन्द्रनाथ टैगोर)</p>	<p>1 -अपने प्रदेश या किसी राज्य की किसी जनजाति के बारे में पता करके उस पर कक्षा में चर्चा करें।</p> <p>2 -अपनी पाठ्य पुस्तकों के अतिरिक्त आप ने कौन-कौन सी पुस्तकें पढ़ी हैं? उसकी सूची बनाइए।</p> <p>3 -किन-किन साधनों से देश-विदेश के बारे में जानकारी प्राप्त की जा सकती है ? उसकी सूची बनाइए ।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p style="text-align: center;"><b>सितंबर 2023</b></p>	<p>9- विश्वेश्वरैया (आर . के . मूर्ति)</p>	<p>1 -सर्दी -गरमी के मौसम में आपके घर के आस-पास क्या-क्या दिखाई देता है ? उसके बारे में लिखिए।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>

<p style="text-align: center;"><b>अक्टूबर / नवंबर 2023</b></p>	<p>10- हम धरती के लाल (शील)</p> <p>11- पोंगल (संकलित)</p>	<p>1-इस तरह की एक और कविता खोजकर पढ़िए और उसे लिखिए ।</p> <p>2-रंगोली बनाने के लिए किन-किन चीजों का प्रयोग किया जाता है ? उसकी सूची बनाइए ।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p style="text-align: center;"><b>दिसंबर 2023</b></p>	<p>12- शहीद झलकारीबाई (संकलित)</p> <p>13- नृत्यांगना सुधा चंद्रन (रामाज्ञा तिवारी)</p>	<p>1. आज़ादी की लड़ाई में हिस्सा लेने वाली कुछ महिलाओं के बारे में जानकारी एकत्रित करके लिखिए।</p> <p>2 -भारत के कुछ नृत्यों और नर्तक / नर्तकियों के बारे में पता करके कक्षा में चर्चा करें।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p style="text-align: center;"><b>जनवरी 2024</b></p>	<p>14- पानी और धूप (सुभद्रा कुमारी चौहान)</p> <p>15- गीत (केदारनाथ अग्रवाल)</p>	<p>1 -उन देशभक्तों के नाम पता करके लिखिए जो बचपन से ही आज़ादी की लड़ाई में कूद पड़े थे ।</p> <p>2 -आपको लगता है कि आज भी किसी को मान -सम्मान नहीं मिल पा रहा है और आप उसको मान -सम्मान दिलाना चाहते हैं तो उनके नामों की सूची बनाइए ।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>

<b>फरवरी 2024</b>	16- मिट्टी की मूर्तियाँ (निबंध -अतिरिक्त पठन हेतु -जया विवेक)	1-मिट्टी से स्वयं किसी वस्तु / खिलौने का निर्माण करें।	<b>1 बहुविकल्पीय प्रश्न -10</b> <b>2 पोर्टफोलियो -10</b> <b>3 श्रवण / वाचन -10</b>
	17- मौत का पहाड़ (चित्रकथा)	2-इस तरह की अन्य कहानियों को खोजकर पढ़िए।	
	18- हम होंगे कामयाब एक दिन (गीत - अतिरिक्त पठन हेतु -गिरिजा कुमार माथुर)	3-इस गीत का कक्षा में सस्वर गायन करें।	

**विषय समेकित गतिविधि/ विषय परिपोषक गतिविधि**

**कक्षा- सात दूर्वा (भाग-2)**

- **चिड़िया और चुरुंगुन-**  
इस पाठ को **कलासमेकित गतिविधि** के द्वारा प्रस्तुत कर सकते हैं। कक्षा में 2 छात्रों के द्वारा रंगमंच के माध्यम से या **नुक्कड़नाटक** के माध्यम से किसी एक छात्र या छात्रा को चिड़िया और दूसरे छात्र या छात्रा को चुरुंगुन का **अभिनय**, कविता के अनुसार करवा सकते हैं। शेष शिक्षक अपने स्वविवेक का प्रयोग कर सकते हैं।
- **सबसे सुंदर लड़की-**  
इस पाठ को **खेल समेकित गतिविधि** के द्वारा प्रस्तुत किया जा सकता है। कक्षा में दो समूह बनाए और कोई भी दो नाम रख सकते हैं, शिक्षक बॉक्स को अपने पास रखेगा और एक प्रश्न श्यामपट्ट पर लिखेगा "सुंदरता हम कैसे जान सकते हैं" अब दोनों समूह को अपने समूह के नाम और एक वाक्य के उत्तर को कागज़ के चिट पर लिखकर बॉक्स में डालने के लिए कहेंगे। साथ ही शिक्षक समय भी निर्धारित करें जिससे दोनों समूहों में प्रति स्पर्धा हो, इस प्रकार छात्रों द्वारा दूर रखे बॉक्स में चिट डालने के बाद, शिक्षक समूह के अनुसार चिट को अलग – अलग करेंगे, एक-एक चिट को पढ़ेंगे और सुंदरता पर प्रत्येक छात्र की सोच को जानेंगे और छात्रों को भी बताएंगे।
- **मैं हूँ रोबोट-**  
इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें **नुक्कड़ नाटक** के माध्यम से कक्षा के एक छात्र को रोबोट की वेशभूषा में तैयार करके, रोबोट की समस्त विशेषताओं और कमियों को समझाया जा सकता है।
- **गुब्बारे पर चीता-**  
इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें शेर, चीता, हाथी आदि के पेंसिल स्केच या रंगीन चित्र बनाए जा सकते हैं। इस प्रकार छात्रों को पाठ से जोड़ा जा सकता है।
- **थोड़ी धरती पाऊँ**  
इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसे नुक्कड़ नाटक के माध्यम से प्रस्तुत कर सकते हैं। इसमें मुख्य भूमिका पेड़ों की होगी, जिसमें किसी छात्र द्वारा अभिनय करवाया जा सकता है। अन्य अभिनय आवश्यकतानुसार भी करवा सकते हैं।
- **गारो-**  
इस पाठ को **खेल समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इस गतिविधि के लिए छात्रों को बाहर खुले मैदान में ले जाएं तथा कक्षा के किसी एक छात्र की आंख पर पट्टी बांधे फिर उसके हाथों में मिट्टी या कोई अन्य वस्तु रख

दें और एक छात्र द्वारा उसे मैदान में चारों तरफ दाएं- बाएं घुमाते हुए किसी निर्धारित स्थान पर उस वस्तु को रखवा दें, फिर उसे दूर तक घुमाते हुए ले जाएं और उसके आंख की पट्टी को खोल दें और उसे उस वस्तु को ढूंढने के लिए कक्षा के सभी छात्र उसके पीछे चलें लेकिन कोई उसे वस्तु के स्थान को ना बताएं, इस प्रकार गारो पाठ के साथ हम खेल के माध्यम से जुड़ सकते हैं जो अनजाने स्थान की खोज करते हैं।

• **पुस्तकें जो अमर हैं-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें **रंग मंच या नुक्कड़ नाटक** में छात्रों द्वारा अभिनय के माध्यम से बच्चों को एक राजा और उसके मंत्री के अत्याचार और विद्वानों की बुद्धिमत्ता को समझाया जा सकता है।

• **काबुलीवाला-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें नुक्कड़ नाटक के माध्यम से पाठ को छात्रों के सामने छात्रों के द्वारा अलग-अलग अभिनय के द्वारा प्रस्तुत किया जा सकता है।

• **विश्वेश्वरैया-**

इस पाठ को **खेल समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। खेल के माध्यम से छात्रों में जिज्ञासा उत्पन्न की जाए जैसे- शिक्षक एक बॉक्स कक्षा में ले जाएं और उस बॉक्स में छोटी-छोटी माचिस की डिबिया रखें, माचिस की अलग-अलग डिबिया में कंकड़, मिट्टी, चूना, चॉक, घास, काँटन, कागज़ आदि कुछ भी वस्तुओं को भर कर रख सकते हैं और छात्रों को दे दे उस डिबिया को तब तक खोलने के लिए मना करें, जब तक कि छात्र एक निर्धारित स्थान से दौड़ कर वापस नहीं आ जाते। प्रत्येक छात्र अपनी-अपनी डिबिया को अकेले में खोलकर देखें और अपनी वस्तुओं के प्रथम अक्षर को बोले तथा सभी छात्र एक-दूसरे की वस्तुओं के प्रथम अक्षर के आधार पर उसका नाम बताएं। जैसे-जैसे सही नाम किसी छात्र द्वारा बताया जाता है तो उसे अलग बैठा दिया जाए। इस प्रकार पाठ को जिज्ञासा के आधार पर जोड़ कर पढ़ाया जा सकता है।

• **हम धरती के लाल-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इस पाठ को एक नुक्कड़ नाटक के माध्यम से कक्षा में सभी अभिनय करने वाले छात्र, कविता वाचन के साथ भी कर सकते हैं, जो अलग-अलग वेशभूषा जैसे-हिंदू, मुस्लिम, सिख, इसाई आदि के रूप में होंगे।

• **पोंगल-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इसमें चित्रकारी, रंगोली बनाकर अलग-अलग राज्यों में मनाए जाने वाले इस त्यौहार को एकीकृत कर सकते हैं और छात्रों का बिहू, पोंगल, लोहड़ी, मकर संक्रांति आदि नामों से समूह बनाये। उन्हें अपनी-अपनी विशेषताओं को प्रदर्शित करने के लिए प्रेरित करें और इस त्यौहार के माध्यम से "अनेकता में एकता" का भी छात्रों में संदेश दे सकते हैं।

• **शहीद झलकारीबाई-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें कक्षा के दो ऐसे छात्र या छात्राओं को चुने जिनकी शारीरिक बनावट एक जैसी हो, उनमें शारीरिक समानता अधिक हो। अब उनके चेहरे को छिपाने के लिए किसी कागज के मास्क का प्रयोग करें या किसी जानवर के चेहरे वाले मास्क को पहनाएं और उनके कपड़े को एक जैसे पहनाएं, इन छात्र-छात्राओं को अन्य छात्रों से अलग तैयार होने के लिए कहे। तैयार होने के बाद उन्हें कक्षा में सभी छात्रों के समक्ष प्रस्तुत करें तथा कक्षा के छात्रों से उन्हें पहचानने के लिए कहें। इस प्रकार इसे रानी लक्ष्मीबाई और झलकारीबाई की समानता से जोड़ सकते हैं।

• **नृत्यांगना सुधा चंद्रन-**

इस पाठ को **कहानी वाचन समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें उत्साह वर्धक कहानी, कविता के माध्यम से पाठ को आरंभ कर सकते हैं या किसी और संघर्षपूर्ण कहानी के माध्यम से पाठ को आरम्भ कर सकते हैं।

• **पानी और धूप-**

इस पाठ को **कहानी वाचन समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। कक्षा में किसी साहस पूर्ण कहानी को सुनाकर पाठ की कविता को उससे जोड़ सकते हैं, जिसमें एक छोटी लड़की अपने परिवार की रक्षा करने के लिए साहसपूर्ण बात करती हैं।

• **गीत-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इसमें नुक्कड़ नाटक के माध्यम से कविता वाचन के साथ-साथ शारीरिक हाव-भाव का भी प्रदर्शन कराया जा सकता है। शारीरिक हावभाव के द्वारा कविता की भावना से जुड़कर छात्रों के मन मस्तिष्क तक पहुंचा जा सकता है।

• **मिट्टी की मूर्तियाँ-**

इस पाठ को **खिलौना समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें कक्षा के सभी छात्रों को मिट्टी के खिलौने, मूर्तियाँ आदि बनाने के लिए दे सकते हैं। छात्र इस प्रकार पाठ से जुड़ भी जाएंगे और मिट्टी से मूर्तियाँ कैसे बनती है, यह सीख भी पाएंगे।

• **मौत का पहाड़-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। शिक्षक किसी कहानी की अलग-अलग फोटो को कक्षा के बोर्ड या श्यामपट्ट पर लगा दें, फिर सभी छात्रों से उस फोटो को देखकर कहानी लिखने या सुनाने के लिए कह सकते हैं।

- **हम होंगे कामयाब एक दिन-**

इस पाठ को अतिरिक्त संगीत गतिविधियों द्वारा प्रस्तुत किया जा सकता है। जिसमें कक्षा के समस्त छात्र एक साथ गीत गायन कर सकते हैं, इसमें शिक्षक गीत के अनुसार शारीरिक हाव-भाव भी प्रस्तुत करवा सकते हैं। जिससे छात्र कविता की भावना के साथ जुड़ सकते हैं।

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## नवोदय विद्यालय समिति

कक्षा : सातवीं

विषय : हिंदी (पाठ्यक्रम- अ)

क्रम सं.					
01	अपठित गद्यांश अपठित पद्यांश				
02	व्याकरण पाठ्य पुस्तक से पाठ्यक्रमानुसार				
03	वसंत भाग-गद्य खंड 2 पुस्तक गद्यांश आधारित प्रश्न पुस्तक आधारित प्रश्न वसंत भाग-पद्य खंड 2 पुस्तक पद्यांश आधारित प्रश्न पुस्तक आधारित प्रश्न				
04	वाल महाभारत गद्यांश आधारित वस्तुनिष्ठ प्रश्न पुस्तक आधारित वस्तुनिष्ठ प्रश्न पुस्तक आधारित लघु प्रश्न				
05	रचनात्मक लेखन पत्रलेखन- अनुच्छेद लेखन				
	कुल अंक				
	□□□कन				
	□□म□□क आकलन				
	□□ध आकलन				
	□□				
	□□क□□प				
	□□ल □□ग				
आवधिक परीक्षा - 1	आवधिक परीक्षा- 2	अर्द्धवार्षिक परीक्षा	आवधिक परीक्षा - 3	आवधिक परीक्षा 4	वार्षिक परीक्षा

40	40	80	40	40	80
<b>कक्षा : सातवीं</b>					
<b>विषय : हिंदी (पाठ्यक्रम- अ)</b>					
माह	कार्य दिवस	कालांश	विषयवस्तु	उपवि	
अप्रैल 2023	22	25	वसंत भाग हम पंछी र बाल-महाभारत- महाभारत देवव्रत भीष्म प्रतिज्ञा अंबा और भीष्म व्याकरण संज्ञा और सर्वनाम अपठित गद्यांश अपठित पद्यांश,	2	मुक्त भारत- कथा भीष्म भीष्म
जुलाई 2023	26	30	वसंत भाग हिमालय की बेटियाँ फूले कदंब (केवल कठपुतली बाल महाभारत- विदुर कुंती भीमकर्ण, द्रोणाचार्य व्याकरण- पर्यायवाची शब्द	2	बेटियाँ (केवल भारत- विदुर कुंती भीमकर्ण, द्रोणाचार्य शब्द

			तत्सम-तद्भव शब्द
अगस्त 2023	26	30	वसंत भाग - 2 मिठाई वाणी फेरीवालों की आवाज पापा खो गए, बाल महाभारत- ल पांडवों की रक्षा, द्रोपदी स्वयंवर इंद्रप्रस्थ, रससाँध शकुनि का प्रवेश, व्याकरण- क्रिया और काल विशेषण
प्रथम आवधिक परीक्षा			
सितंबर 2023	23	25	वसंत भाग -2 शाम एक किसान अपूर्व अनुभव बाल महाभारत- चौसर का खेल व धृतराष्ट्र की चिंता, भीम और अनुमान मायावी स्वयंवर व्याकरण वाक्यांश मुहावरे और लोको अनुच्छेद लेखन
अक्टूबर 2023	15	20	बसंत भाग 2 रहीम के लहे, बाल महाभारत- यक्ष प्रश्न अज्ञातवास

			प्रतिज्ञापूर्ति विराट का प्रेम मंत्रणा व्याकरण- उपसर्ग, प्रत्यय
अर्द्धवार्षिक परीक्षा			
द्वितीय सत्र 2023-24			
नवंबर 2023	18	22	वसंत भाग 2 एक तिनका खान पान- की बद बाल-महाभारत - मंत्रणा राजदूत संग्रह शांतिदूत श्रीकृष्ण पांडवों और कौरवों पहले से नौ दिनों व्याकरण- वर्तनी वाक्य अर्थ के आधार
दिसंबर 2023	20	25	वसंत भाग 2 नीलकंठ, भोर और बरखा बाल-महाभारत- भीष्म सरणीय्या प चिंता और कामना व्याकरण- वाक्यशुद्धि, पत्र लेखन पुनरा
जनवरी 2024	15	20	वसंत भाग 2 वीर कुंवर सिंह संघर्ष के कारण मै

			हमारी खूबश (के बाल -महाभारत- भूरिश्रवा जयद्रथ'ए कर्ण और युयोधन अश्वत्थामा युधिष्ठिर का बेदना व्याकरण- विराम-चिह्न
तृतीय आवधिक परीक्षा			
फरवरी 2024	24	28	बसंत भाग 2 आश्रम का अनुमान बाल महाभारत - पांडवों का धृतराष्ट्र श्रीकृष्ण और युधि अनुच्छेद- लेखन
मार्च 2024			सम्पूर्ण पाठ्यक्रम
वार्षिक परीक्षा			

टिप्पणी-वार्षिक परीक्षा पत्र के लिए 20% वार्षिक परीक्षा के पाठ शामिल किए जाएंगे, जो

निम्नलिखित हैं-

- e) मिठाई वाला
- f) शाम एक किमान
- g) अंबा और भीष्म, कर्ण, लान का घर, यक्ष प्रश्न
- h) विशेषण, वचन एवं लिंग

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: VII**

**SUBJECT: MATHEMATICS**

Chapter No.	Name of The Chapter	Marks	Periods
<b>TERM-I</b>			
01	INTEGER*	10	07
02	FRACTIONS AND DECIMALS	14	10
05	LINES AND ANGLES*	12	10
03	DATA HANDLING	12	08
12	ALGEBRAIC EXPRESSIONS	12	08
04	SIMPLE EQUATIONS*	12	09
15	VISUALISING SOLID SHAPES	08	08
	TOTAL	80	60
	Convert into 50	50	
	Internal Assessment	50	
	TERM - I Total	100	
	TERM - I (WEIGHTAGE)	40%	
<b>TERM-II</b>			
09	RATIONAL NUMBERS	10	10
11	PERIMETER AND AREA	10	15
06	THE TRIANGLES AND ITS PROPERTIES	15	12
14	SYMMETRY	10	07
08	COMPARING QUANTITIES	09	10
13	EXPONENTS AND POWERS	10	08
TERM-I 20%	SIGNIFICANT TOPICS* Integers, Lines and Angle & Simple Equations	16	20% syllabus of First term
	TOTAL	80	62
	Convert into 50	50	
	Internal Assessment	50	
	Term -II Total	100	
	TERM - II (WEIGHTAGE)	60%	

NAVODAYA VIDYALAYA SAMITI

CLASS: VII

SUBJECT: MATHEMATICS

MONTH	NO. OF DAYS	NO.OF PERIODS	Weightage of Marks for the Unit / Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests/ Formative Tests / Assignment
APRIL-2023	20	07	10	<p><b>Chapter-1. INTEGERS*:</b></p> <ul style="list-style-type: none"> <li>• Properties of Addition and Subtractions of Integers</li> <li>• Multiplication and Division of Integers</li> <li>• Properties of Multiplication of Integers</li> <li>• Properties of Division of Integers</li> <li>• Word Problems</li> </ul>	<p><b>Subject Enrichment</b></p> <p><b>Activity-1:</b></p> <p>Addition and Subtraction of Integers by Game.</p>	PWT-1 17-19 JULY'23  <u>Assignment-1</u>
				<p><b>Dropped Topics:</b> Introduction, Recall (Page No.1-5) 1.4.3 Product of three or more negative numbers (Page No. 14-15) 1.5.7 Making multiplication easier (Page No. 18-22 &amp; 27)</p>		
		10	14	<p><b>Chapter-2. FRACTION AND DECIMALS:</b></p> <ol style="list-style-type: none"> <li>1) Diagrammatic Representation of Fraction.</li> <li>2) Simplest and Equivalent Form of Fractions.</li> <li>3) Basic Operations on Fractions and Decimals.</li> <li>4) Word Problems.</li> </ol>	<p><b>Activity -2:</b> To find the sum of fractions with different denominators</p> <p><b>Maintain Portfolio Multiple Assessment:</b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project.</p>	
			<p><b>Dropped Topics:</b> 2.1 Introduction, 2.2 How well have you learned about Fractions (Page No. 29-32), 2.5 How well have you learned about decimals (Page No. 46-48 &amp; 55)</p>			

JULY 2023	22	10	12	<p><b>Chapter-5. LINES AND ANGLES*:</b></p> <ul style="list-style-type: none"> <li>Recall, Curves, Shapes, Point, Line-segment, Line</li> <li>Distinct types of Angles</li> <li>Pair of Angles</li> <li>Properties of Parallel Lines and related problem.</li> <li>Transversal and related Angles and its problems</li> </ul>	<p><b>Subject Enrichment</b></p> <p><b>Activity-3:</b></p> <ul style="list-style-type: none"> <li>To verify that vertically opposite angles are equal.</li> <li>Model of parallel lines and transversal.</li> </ul>	M
				<p><b>Dropped Topics:</b> 5.2.3 Adjacent angles, 5.2.4 Linear pairs (Page No. 97-103), 5.2.5 Vertically opposite Angles, (Page No. 111-112)</p>		
JULY 2023		08	12	<p><b>Chapter-3. DATA HANDLING:</b></p> <ul style="list-style-type: none"> <li>Frequency distribution table using Tally Marks</li> <li>Mean, Range, Medians and Mode of Ungrouped Data</li> <li>Constructing Bar Graph</li> </ul>	<p><b>Subject Enrichment Activity-4:</b> To collect data and represent this through a bar graph.</p> <p><b>Maintain Portfolio Multiple Assessment</b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project/</p>	
				<p><b>Dropped Topics:</b> 3.1 Introduction, 3.2 Collecting data (Page No. 57-59), 3.3 Organization of data, 3.9 Chance and probability (Page No. 74-76)</p>		
AUG 2023	23	08	12	<p><b>Chapter-12. ALGEBRAIC EXPRESSIONS:</b></p> <ul style="list-style-type: none"> <li>Recall of term, Variables, Coefficients, Factors of a Term</li> <li>General Algebraic Expressions Involving One or Two Variables</li> <li>Like and Unlike Terms</li> <li>Classification of Monomials, Binomials, Trinomials and Polynomials</li> <li>Finding the Value of an Algebraic Expressions</li> </ul>	<p><b>Activity -5:</b> To add two algebraic expression using different strips of cardboard.</p> <p><b>Maintain Portfolio:</b> <b>Multiple Assessment:</b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p>	<p>Assignment-3 PWT-2 21-23 Aug 2023 Assignment-2</p>
				<p><b>Dropped Topics:</b> 12.6 Addition and subtraction of algebraic expressions (Page No. 235-240) 12.8 Using algebraic expressions– formulas and rules (Page No. 243-248)</p>		



		09	12	<p><b>Chapter-4. SIMPLE EQUATIONS*:</b></p> <ul style="list-style-type: none"> <li>Recall Solutions of Equations</li> <li>Formation of Equations</li> <li>Solving simple Equations</li> <li>Application of Simple Equations to Practical Situations</li> </ul>		
				<p><b>Dropped Topics:</b> 4.6 From solution to equation (Page No. 88-89 &amp; 92)</p>		
SEPT 2023	24	08	08	<p><b>Chapter-15. VISUALISING SOLID SHAPES:</b></p> <ul style="list-style-type: none"> <li>Plane Figures and Solid Shapes</li> <li>Nets for Building 3-D Shapes</li> <li>Drawing Solid on a Flat Surface (Oblique and Isometric Sketches)</li> <li>Visualizing Solid Objects</li> <li>Viewing Different Sections of a Solid (front view, side view, top view)</li> </ul>	<p>Making toys by using different 3- D shapes.</p> <p><b>Maintain Portfolio:</b></p> <p><b>Multiple Assessment:</b></p> <p>Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p>	
				<p><b>Dropped Topics:</b> No Deletion</p>		
				<p><b>REVISION FOR TERM I</b></p>		
OCT 2023				<p><b>Half Yearly Examination/Term -1 (03.10.23 to 14.10.23)</b></p>		
OCT 2023	06	10	10	<p><b>Chapter-9. RATIONAL NUMBERS:</b></p> <ul style="list-style-type: none"> <li>Recall of Natural Numbers, Whole Numbers and Integers.</li> <li>Need for Rational Numbers.</li> <li>Standard form of Rational Numbers</li> <li>Comparison of Rational Numbers</li> <li>Finding Rational Numbers between two Rational Numbers</li> <li>Operation on Rational Numbers</li> </ul>	<p><b>Subject Enrichment</b></p> <p><b>Activity -6:</b></p> <p>To find the ratio of circumference and diameter of circle.</p> <p><b>Maintain Portfolio:</b></p>	Assignment - 4
				<p><b>Dropped Topics:</b> No Deletion</p>		
<b>Autumn Break (23.10.2023 to 15.11.2023)</b>						
NOV 2023	12	15	10	<p><b>Chapter-11. PERIMETER AND AREA:</b></p> <p>V) Area of Triangle and Parallelogram</p> <p>VI) Area of Triangles</p> <p>VII) Circumference of Circle</p> <p>VIII) Area of Circle</p>	<p><b>Multiple Assessment:</b></p> <p>Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p>	

				<p><b>Dropped Topics:</b> 11.1 Introduction, 11.2 Squares and Rectangles, 11.2.1 Triangles as parts of rectangles, 11.2.2 Generalizing for other congruent parts of Rectangles (Page No. 205-210), 11.6 Conversion of units, 11.7 Applications (Page No. 224-228)</p>		
DEC 2023	22	12	15	<p><b>Chapter-6.</b> <b>TRIANGLE AND ITS PROPERTIES:</b></p> <ul style="list-style-type: none"> <li>Recall Types of Triangles</li> <li>Medians and Altitudes of a Triangle</li> <li>Exterior angles of a Triangle and its Properties</li> <li>Angle sum property of a Triangle</li> <li>Special types of triangles: Equilateral and Isosceles Triangle</li> <li>Sum and Difference of two sides of a Triangle compare with the third side</li> <li>Right Angle Triangle and Pythagoras Property</li> <li>Word Problem</li> </ul>	<p><b>Subject Enrichment</b></p> <p><b>Activity-7:</b></p> <p>To verify the sum of angles of triangles is 180 degrees.</p> <p><b>Activity-8:</b></p> <p>To find the order of rotational symmetry of given figure</p>	PWT-3 07-09 DEC 23
				<p><b>Dropped Topics: No Deletion</b></p>		
JAN 2024	21	07	10	<p><b>Chapter-14. SYMMETRY:</b></p> <ul style="list-style-type: none"> <li>Recall of Symmetric and Non-symmetric Figures</li> <li>Line of Symmetry and Lines of Symmetry for Regular Polygons</li> <li>Rotational Symmetry: Angle of Rotation and Order of Rotation</li> <li>Line Symmetry and Rotational Symmetry</li> </ul>	<p><b>Maintain Portfolio:</b></p> <p><b>Multiple Assessment:</b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p> <p><b>Assignment-5</b></p>	Assignment - 5
				<p><b>Dropped Topics: No Deletion</b></p>		
		10	09	<p><b>Chapter -08. COMPARING QUANTITIES:</b></p> <p>viii) Percentage</p> <p>ix) Converting of Fractions, Decimals into Ratio and Percentage</p> <p>x) Converting Percentages to Fractions or Decimals</p> <p>xi) Applications of Percentage:</p> <p>xii) Simple Interest</p> <p>xiii) Word Problems</p>	<p><b>Subject Enrichment</b></p> <p><b>Maintain Portfolio:</b></p> <p><b>Multiple Assessment:</b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project.</p> <p><b>Assignment-6</b></p>	

				<b>Dropped Topics:</b> 8.1 Introduction, 8.2 Equivalent ratios (Page No. 153-157)		
				<b>WINTER BREAK</b> (13.01.24 TO 18.01.24)		
FEB 2024	22	08	10	<b>Chapter -15. EXPONENTS AND POWERS:</b> <ul style="list-style-type: none"> <li>• Introductions</li> <li>• Laws of Exponents</li> <li>• Decimals Number System and Exponents</li> <li>• Expressing Large Number in the Standard Form</li> </ul>	<b>Subject Enrichment Activity9 :</b> To find the value of $a^n$ using paper folding.  <b>Maintain Portfolio:</b> <b>Multiple Assessment:</b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project	PWT-4 1 Feb 24 -3 FEB 24 <u>Assignment- 6</u>
				Revision of significant topics		
				<b>NOTE: Following Chapters have been deleted</b> Chapter - 07. CONGRUENCE OF TRIANGLES Chapter 10. PRACTICAL GEOMETRY		
MARCH 2024	26			<b>REVISION AND ANNUAL EXAMINATION</b>		
				Annual Examination 14-27 March 2024		

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: VII**

**SUBJECT: MUSIC**

- Students learn about primary concepts of Music and also learn to correlate it with Science and other subjects.
- Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- Students explore Local Folk Culture
- Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concepts with a broader vision.
- Students are exposed to the integration of latest technology in music.

			<b>Main-Topics and Sub -Topics to be Covered</b>	<b>Projects/Art (Performing) Integrated Pedagogy- Activities Prescribed</b>	<b>Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)</b>
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APRIL/JUNE 2023	25	08	1. Revision of Navodaya Song and previous topics.	<p><b>SUGGESTED ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>• Word by word recitation of the song by teacher followed by students</li> <li>• Discussion on the meaning of the song</li> <li>• Recitation of tune by teacher followed by students.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Associate the song with our country's rich literal culture and poets.</li> <li>• Students are asked to go through the writings of Rabindranath Tagore.</li> </ul> <p>Students are exposed to our country's heritage and freedom struggle and the contributions of Rabindranath Tagore.</p>	<p>Vocal</p> <p>Performance / Instrumental</p> <p>Performance (Perfection of pitch, tempo and in proper rhythm).</p>
JULY 2023	23	04	2. 'Sarejahanse Acha' with its meaning  3. 'Hind Deshkeniwasi 'song and its meaning	<p>xi) Discussion about lyrics and its meaning</p> <p>xii) Word by word recitation by teacher followed by students</p> <p>xiii) Recitation of tune by teacher followed by students.</p> <p><b>(Interdisciplinary Approach) Civics:</b></p> <p>Students are exposed to the values of unity in diversity. Students will get an idea about values of Secularism in our Constitution.</p>	<p>Vocal/Instrumental performance</p> <p>Question– Answer about Values of Secularism as contemplated in constitution of India.</p>
		03	4. Introduction to any one of the percussion instruments.	<ul style="list-style-type: none"> <li>• Discussion about percussion instrument and its structure.</li> <li>• Discussion on its use in music systems.</li> </ul> <p><b>(Interdisciplinary Approach) Science:</b></p> <p>Students are exposed to the techniques of production of sound, timbre, pitch etc.</p> <p>Social Science: Students explore the reference of such instruments in the history.</p>	<p>Question – Answer about the instruments.</p> <p>Students are asked to collect pictures of various percussion instruments used in different music systems.</p>

AUGUST 2023	19	03	<p>5. Definition of Raga. Introduction to raga 'Sankarabharanam'</p> <p>OR</p> <p>Rag 'Bilaval'</p>	<ol style="list-style-type: none"> <li>6. Discussion about structure of Raga and notes used in it.</li> <li>7. A small bandish (Composition) in Raga</li> <li>3. Listen different types of famous Bhajans and light music songs to make the concept clear.</li> <li>4. Patriotic song- Telugu</li> </ol>	<p>Question – Answer about theoretical aspects of Raga.</p> <p>Vocal / Instrumental performance.</p> <p>Ability to recognize Raga from phrases of swaras during viva test (Practical Exam)</p>
SEPTEMBER 2023	23	04	<p>6.Folk song in Regional Language.</p>	<ol style="list-style-type: none"> <li>4. Discussion about Song covering the type of song, special occasion when the song is sung, aesthetics of the song etc.</li> <li>5. THEORY: Musical Instrument of Indian Classical Music.(Carnatic/Hindusthani)</li> </ol> <p><b>(Interdisciplinary Approach)</b></p> <ol style="list-style-type: none"> <li>1. Language &amp; Literature</li> </ol>	<ol style="list-style-type: none"> <li>1. Vocal</li> </ol> <p>Performance/Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</p>
				<p>Students learn about the regional Language and dialects.</p> <ol style="list-style-type: none"> <li>6. Art &amp; Culture: Students are asked to collect pictures and information regarding different festivals, folk songs and folk dances of their region.</li> </ol>	<ol style="list-style-type: none"> <li>1. Vocal Performance (Recitation of Composition with proper notes, tempo and in proper rhythm)</li> </ol>

		04	7. Community Song In Tamil	<p>4. Discussion about lyrics and its meaning</p> <p>5. Word by word recitation by teacher followed by students</p> <p>6. Recitation of tune by teacher followed by students</p> <p><b>(Interdisciplinary Approach)</b></p> <p><b>Civics :</b></p> <p>Students are exposed to the art &amp; culture of Tamilnadu.</p> <p>Students are asked to prepare a chart depicting the historical monuments in state of Tamilnadu.</p> <p>Students are asked to collect photographs of the freedom fighters of Tamilnadu with brief Information about their life.</p>	3. Project Work - Prepare a chart about population, education ratio, festivals, cousins, main crops, water reservoirs etc. of the state of Tamilnadu.
OCTOBER 2023	14	08	<p>Bhajan- 'Raghupatiraghava'</p> <p>Bhajan- 'Vaishnav Janato'</p>	<p>2. Discussion about the song and its meaning</p> <p>3. Discussion about Human values</p> <p>4. Recitation of the song by teacher followed by the students</p> <p><b>(Interdisciplinary Approach)</b></p> <p>4. VALUE EDUCATION Students explore human values as described in the Bhajan</p> <p>5. SOCIAL SCIENCE: Collect information about lives and deeds of various saints and leaders who have followed the values in their life and set examples for others.</p>	4. Vocal / Instrumental Performance Simple question – Answer about Raga used in the bhajan
			<b>TERM I EXAM</b>		



NOVEMBER 2023	26	02	Introduction to Tala Rupaka in Carnatic system OR Tala: Dadra in Hindusthani system.	2. Discussion about importance of Taal 3. Exercise for counting Matras of Dadra OR Rupaka tala (Carnatic Music) with clapping & stamping 4. Recitation of Bols (syllables) of the talas. (Interdisciplinary Approach) Mathematics: Students may be exposed to the calculation and divisions of musical beats and its cycle.	2. Question – Answer about theoretical aspects of Tala. Skill of clapping and stamping in Tala Recitation of Bols (Syllables of Tala)
		04	A poem in regional language in your own music	5. Discussion about lyrics and its meaning 6. Word by word recitation by teacher followed by students 7. Recitation of tune by teacher followed by students	Vocal/Instrumental Performance. Encourage students to recite such poems in their own tune
DECEMBER 2023	12	04	Introductio to Tala 'MisraChapp u' in Carnatic system OR Rupak in Hindusthani system.	3. Discussion about importance of Taal 4. Exercise for counting Matras of Rupak Tal OR MisraChappu tala (Carnatic Music) with clapping & stamping 5. Recitation of Bols (syllables) of the talas. <b>(Interdisciplinary Approach)</b> Mathematics: Students are exposed to the calculation and divisions of musical beats and its cycle.	Question – Answer about theoretical aspects of Tala Skill of clapping and stamping in Tala Recitation of Bols (Syllables of Tala) Students are asked to find out more songs in the same tala.
		<b>WINTER BREAK</b>			

JANUARY 2024	21	08	<p>1. Introduction to the musical instrument: 'Violin'- King of musical instruments.</p> <p>2. Brief note on the history and making of 'Violin'</p>	<p>4. Discussion about the structure of the Instrument</p> <p>5. Science behind the production of sound from the Instrument</p> <p><b>(Interdisciplinary Approach)</b> Physics : Concept of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) are easily explained while teaching the making of the instrument.</p> <p>General Studies: Collection of Photographs of eminent artists related with said instruments and brief information of the artist in the form of charts or scrap book.</p>	<p>Question – Answer about making of the instrument.</p> <p>Question – Answer about terms of Science like frequency, effect of the thickness, length and type of material on production of sound etc. Drawing labelled diagram of the instruments.</p>
FEBRUARY 2024	22	04	<p>4. Brief note on the origin and evolution of keyboard synthesizer</p> <p>5. Musical Instrument Digital Interface (MIDI)</p>	<p>3. Discussion about electronics and music.</p> <p>4. Science behind the production of sound from the Instrument</p> <p>5. Making of any Indian stringed Instrument Eg:Veena/Sitar</p> <p><b>(Interdisciplinary Approach)</b> 4. Physics : Concept of MIDI, frequency, tonal manipulation etc.,</p>	<p>Question – Answer about electronic music instruments. Question – Answer about terms of Science like frequency, pitch etc., Students are asked to collect data on recent development of electronic musical instruments</p>
		<p><b>REVISION OF ALL THE TOPICS &amp; PRACTICAL EXAMS</b> <b>(VOCAL / INSTRUMENTAL)</b></p>			
MARCH 2024	12	<p><b>ANNUAL EXAMINATION</b></p>			

- As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
- Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.

5. Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.

**NAVODAYA VIDYALAYA SAMITI**

**CLASS – VII**

**SUBJECT: PHYSICAL EDUCATION**

Standing and Standard Instructions:

3. Morning Jogging/Warm Up Exercises/ Mass Drills /Aerobics/Yoga and Meditation
4. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
5. Inter House Competitions as per Vidyalaya Calendar of Activities
6. Holding Periodical Cross-Country Race/Walk.
7. Trekking and Hiking Activities at least once in a year
8. Showing Live Matches to Children
9. Martial Arts / Self Defence Skills through Resource Persons
10. Fit India Movement activity should be conducted as per schedule
11. Special day must be celebrated i.e., Yoga Day, National Sport Day
12. ICT to be a part of the pedagogy to make learning enjoyable and joyful

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)			
APRIL 2023	25	04	1.Jogging and Warm – up 2.Calithenics Exercises (Free hand exercises) 3.Awareness Generation Rally on theme “We Fit – India Fit”	Introduce Minor games like: 1. Fire in the mountain 2.Train Bogie 3.Fill the Jail 4.Rama – Ravana 5.Dog and Bone 6.Circle Kho 7.Tiger and Cow 8.Dragon Tail	1.Food and nutrition – how to prepare food nutritiously 2. What is the relation between food, festival and celebrations? 3.Preparation of food 4.Importance of pranayama and meditation	English: A Tiger in the House  Activity Name: Archery	Player will be given three chances to hit the target and scores will be recorded.
JULY 2023	23	04	1.Running and short sprints 2.Stretching exercise 3.Yoga asana - Surya Namaskar	1. As per the ability, the students are grouped in to different games, like – Kho-Kho, kabaddi, volleyball, Basketball etc. 2. Practice basic skills of Kho – Kho. Inter House Competition of Kho – Kho.	1.Safety and security – how to deal with common injuries 2. Common injuries – identification and treatment. 3. Introduction to first-aid box. 4. Ground measurements for Kho – Kho.	English: The Desert  Activity Name: Achieve the Goal, Be the winner	Circuit Training  (Each Place will be named after famous Deserts )
AUGUST 2023	24	04	1.Jogging and warm up 2.Coordination Exercises 3.March past practice 4.Yoga asana, standing asana-Vrikshasana,, Tadasana, Trikonasana	1.Practice of skills and techniques of Athletics and table-tennis 2.Marching formation	1.We and our environment – vector borne diseases 2.Good environment, concept of good environment 3.Different sources of environmental pollution and its effect on health 4. Rules and regulations of Athletics and Table – Tennis.	Mathematics: Fractions and Decimals  Activity Name: Concepts of Area and Perimeter	Students asked to measure the length as well as the width of Kho-Kho ground

SEPTEMBER 2023	26	05	<p>1. Continuous running practice</p> <p>2. Developing motor ability</p> <p>3. Yoga asana Yoga mudra, Viparitkarani, Sarvangasana, Halasana, Shavasana, Pranayama</p>	<p>1.Practice rules and regulations of kabaddi</p> <p>2. Indoor games like Chess, Carom, and Badminton.</p> <p>3. Inter House Competition of Kabaddi.</p>	<p>1.Developing motor ability</p> <p>2.Developing ability of naturally responding to command, group work formation, marching formation</p> <p>3.Fundamentals of track and field events – 100m, 200m run,600m run/walk etc</p> <p>4.Asanas and mudra for healthy living</p>	<p>Mathematics: Data Handling</p> <p>Activity Name: Collection And Representation of Data</p>	<p>Standing Broad Jump</p>
OCTOBER- NOVEMBER 2023	27	04	<p>1.Running and warming up</p> <p>2.Exercises with apparatus – dumbbells, Lazium, hoops, ropes, ribbons etc.</p> <p>3. Meditation /pranayama.</p> <p>4..Fit India Cycling.</p> <p>5.Plogging - Run</p>	<p>1.Practice of skills and techniques of handball</p> <p>2.Inter House Competition of Handball and Shuttle Badminton.</p>	<p>Human Body:</p> <p>1.Process of Growing</p> <p>2.Menstruation</p> <p>3.Myths and misconceptions</p> <p>4.Sexual abuse</p> <p>5.Rules and regulations of the game – handball</p> <p>6.Ground measurement of handball and Shuttle Badminton.</p>	<p>Mathematics: Lines &amp; Angles</p> <p>Activity name: Concepts of line, Line Segment and Sports, Cricket - Batting</p>	<p>Asking children to prepare cricket pitch &amp; Badminton Court</p>
DECEMBER- JANUARY 2024	45	08	<p>1.Jogging and Warming up</p> <p>2.Rhythmic and Aerobic Exercises Mayurasana Ardhachakrasana</p> <p>3.Organization of Indigenous/ Traditional sports</p>	<p>1.Practice of different games</p> <p>2. Knowledge and practice skills of Volleyball and Basketball.</p> <p>3.Inter House Competition of Volleyball and Basketball.</p>	<p>1.Effect of exercise on body parts and body systems</p> <p>2.Importance of physical fitness</p> <p>3.Different components of physical fitness</p> <p>4.Concept of body image</p> <p>5.Sharing experiences of great personalities</p> <p>Role of yoga in daily life</p>	<p>Science: Motion and Speed</p> <p>Activity name: Slow and Fast</p>	<p>Asking children to Run slow and fast in the ground</p>

FEB / MARCH 2024	3 5	0 7	<p>1.Jogging and warming up 2.Battery tests (to analyze the performance in the end of the session) 3.Yoga Asanas –Sarvangasana, Paschimotanasa 4.Mental Fitness Week: Puzzle Solving (Sudoku, Crosswords &amp; Word jumbles)</p>	<p>1. Check the performance level of students. 2. Practice of Wrestling skills. 3. Inter- House competition of Wrestling. 4. Annual Sports Day</p>	<p>1.Role of motivation in the field of sports 2.Careers in sports 3.Government health services 4.Sports scholarships and awards 5.Outstanding personalities in health and sports  Yearly examination</p>	<p>Geography: Water:- Distribution of water bodies  Activity Name: Circular Obstacle Race</p>	<p>Asking children to speak about characteristics of each state of water and how it happens s e a m l e s s l y</p>
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NAVODAYA VIDYALAYA SAMITI

CLASS VII

SUBJECT: SCIENCE

Unit No	Name Of The Chapter /Unit	PERIODS
1	Nutrition In Plants	12
6	Physical And Chemical Changes	8
4	Heat	12
2	Nutrition In Animals	10
5	Acids, Bases ,And Salts	12
10	Respiration In Organisms	10
13	Motion And Time	11
12	Reproduction In Plants	10
14	Electric Current And Its Effects	7
11	Transportation In Animals	14
15	Light	10
17	Forests-Our Life Line	10
18	Waste Water Story	10
	<b>TOTAL</b>	<b>80 Marks</b>
	<b>INTERNAL ASSESMENT</b>	<b>20Marks</b>
	<b>GRAND TOTAL</b>	<b>100 Marks</b>



Month	No. of Days	No. of periods	Main topic and sub topic to be covered	Activities projects/practical's experiments to be held specific assessment tools (suggested)
April-2023	20	12	<b>1.Nutrition in plants:(Biology)</b> :Mode on Nutrition in plants(autotrophic/ heterotrophic), Photosynthesis, Synthesis of food other than carbohydrates, Host-parasite, insectivorous plants, Saprotrophs and symbiotic relationship ,How Nutrients are replenished in soil	Activities:1.2 &1.2 and Extended Learning Activities  Multiple assessment: Concept maps, Drawing ,Puzzles, Quizzes etc PF: Note book correction
		08	<b>6.Physical and Chemical Changes:(Chemistry)</b> Physical changes, Chemical changes, Rusting of Iron, Crystallization	Activities: 6.1 to 6.9 and Extended Learning Activities
July-2023	25	12	<b>4.Heat: (Physics)</b> Hot and Cold , Measuring Temperature Laboratory Thermometer, Transfer of Heat , Kinds of Clothes we wear in Summer and Winter	Activities:4.1 to 4.11 and Extended Learning Activities
		<b>Periodic Written Test-1(17 -19 July-2023)</b> <b>Suggestive Activities for PWT-1 Concept maps, Quizzes ,Drawing, Puzzles, Discussions etc PF: Note Book Correction</b>		
		10	<b>*2.Nutrition in Animals:(Biology)</b> Different ways of taking food, Digestion in humans The Food/pipe/Oesophagus , The Small Intestine, Large Intestine ,Digestion in Grass-eating animals, Feeding and Digestion in Amoeba	Activities:2.2,-2.4 and Extended Learning Activities
August-2023	26	12	<b>15.Light :(Physics)</b> Light travels along a Straight Line, Reflection of light, Right or left ,Playing with Spherical mirrors, Images formed by lenses ,Sun light-White or Coloured	Activity:15.1 to 15.12,and Extended Learning Activities
		<b>Periodic Written Test-2(21-23 August-2023) Multiple Assessment</b> <b>Concept maps, quizzes , drawing numerical, discussions etc</b> <b>PF: notebook correction</b>		

September-2023	23	10	<b>*5.Acids and bases and salts:(Chemistry)</b> Acids and Bases, Natural Indicators around us Neutralization in Everyday Life	Activities: 5.1 to 5.5 and Extended learning Activities	
		13	<b>Revision for Term-1 Examinations</b>		
October-2023	18	12	<b>Term-1(3-14 October-2023) Exams</b>		
		6	<b>10.Respiration in Organisms :(Biology)</b> Why do we respire, Breathing, How do we breathe, What do we breath out, Breathing in other animals, Breathing under water, Do plants also respire	Activitivities:10.1 to 10.4 and Extended learning activities	
<b>Winter break 23-10-2023 to 15-11-2023</b>					
November-2023	15	5	Continuation of <b>10.Respiration in Organisms</b>	<b>Activities and Extended Learning activities</b>	
		10	<b>12.Reproduction in plants:(Biology)</b> Modes of reproduction, Sexual reproduction, Fruits and seeds formation, Seed dispersal	<b>12.Reproduction in plants:(Biology)</b> Modes of reproduction, Sexual reproduction, Fruits and seeds formation, Seed dispersal	
December-2023	24	7	<b>13.Motion and time:(Physics)</b> Slow or Fast, Speed, Measurement of time ,Measuring speed	Activity:13.1, to 13.3, and Extended learning activities	
		<b>Periodic Written Test-3 (7-9 December-2023)</b> <b>concept maps, quizzes , drawing numerical, discussions etc PF: notebook correction</b>			

		14	<b>11.Transportation in Animals and Plants:(Biology)</b> Circulatory system, Excretion in animals, Excretory System in humans , Transport of substances in plants	Activity:11.1 to 11.3 and E-learning activities
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January-2023	20	10	<b>18.Waste water Story :(Chemistry)</b> Water our lifeline ,What is Sewage, Water Freshens up-an eventful journey, Treatment of Polluted Water ,Wastewater Treatment Plant, Better Housekeeping practices, Sanitation and Disease, Alternative arrangement for Sewage Disposal, Sanitation at public Places	Activity: 18.1 to 18.4 and extended learning
		10	<b>14.Electric current and its Effects:(Physics)</b> Symbols of Electric components, Heating effect of Electric Current , Magnetic Effect of Electric Current ,Electromagnet	Activity:14.1 to 146, and Extended learning activities
<b>Periodic Written Test-4(1-3 Feb)concept maps, quizzes, drawing numerical, discussions</b> <b>PF: notebook correction</b>				
February-2023	24	10	<b>17.Forests :our Lifeline :(Biology)</b> Visit to a Forest, Forest products ,Dynamic living entity ,Deforestation :causes and consequences  And Revision For Term-2 Exams	Activity:17.1to 17.3 , and Extended learning activities
March-2023	<b>Revision for Term- 2 exams: Question paper will have 20% questions from significant topics (marked*) and entire Term-II syllabus</b>			

Distribution of chapters:						
	PWT-1	PWT-2	TERM-1	PWT-3	PWT-4	TERM-2
Chapter No.s	1,6,4	2*,15	1,6,4,2*,15,5*	10,12,13	11,18,14	2*,5*(Term-1) 10,12,13,11,18,14,17

Bio	1	1*	2	2	1	$1^*+1+4=6$
Che	1	0	$1+1^*=2$	0	1	$1^*+2=3$
Phy	1	1	2	1	1	4
TOT	3	2	6	3	3	$2^*+11=13$

NAVODAYA VIDYALAYA SAMITI

CLASS-VII

SUBJECT-SOCIAL SCIENCE

Chapter No	Title of the Chapter	Weightage
	<b>History ; Our Past II</b>	
1	Tracing Changes Through a Thousand Years	6
2	New Kings & Kingdom	7
3	The Delhi Sultans	7
4	Mughal Empire	6
5	Rulers & Buildings	7
6	Towns Traders & Craft Persons	5
7	Tribes Nomads & Settled Communities	5
8	Devotional path to the Divine	5
9	Making of Regional Cultures	6
10	Eighteenth Century Political Formations	6
	<b>Geography : Our Environment</b>	
1	Environment	8
2	Inside Our earth	6
3	Our Changing Earth	7
4	Air	6
5	Water	5
6	Natural Vegetation & Wildlife	5
7	Human Environment Interactions; Settlement Transport & Communication	4
8	Human Environment Interactions : tropical & Subtropical Region	4
9	Life in the desert	5
	<b>Civics; Social &amp; Political Life</b>	
1	On Equality	6
2	Role of the Government in Health	7

3	How the state Government Works	7
4	Growing up us Boys & Girls	5
5	Women Change the World.	5
6	Understanding Media	6
7	Markets Around Us	5
8	A Shirt in the Market	4
9	Struggles for Equality	5
	Total	80+80 (Term I&II)

Month	No of Days	Periods	Chapter Name	ACTIVITIES/PROJECTS/ PRACTICAL EXPERIMENTS TO BE HELD/ SPECIFIC ASSESSMENT TOOL(S)(SUGGES TED)
April 2023	25	20	4. Changes Through a Thousand Years 5. New Kings & Kingdom 6. On Equality 7. Environment	Tracing Map Skills a. Identification b. Labeling & Accuracy c. Presentation /Neatness
July 2023	25	20	3. Sultans 4. Government in Health	The Delhi Role of the
			PWT 1	
August 2023			3. Empire 4. Government Works 5. earth	Mughal How the state Inside Our
			PWT 2	
September 2023	24	20	4. Boys & Girls 5. Buildings 6. Earth 7.	Growing up us Rulers & Our Changing Air
October	9	6	Term Test 1	

			3. Traders & Craft Persons	Towns		
			4. Change the World.	Women		
November			4. Media	Understanding	Project Work/ Discussion	
			5.	Water		
December	25	20	3. Nomads & Settled Communities	Tribes		
			4. Around Us	Markets		
			5. Vegetation & Wildlife	Natural		
			<b>PWT 3</b>			
January 2024	25	20	2. path to the Divine	Devotional	Scrap Book / Visit to Historical place a.Observation b. Understanding c.Application of Knowledge	
			3. Market	A Shirt in the		
			4. Environment Interactions; Settlement Transport & Communication	Human		
			5. Environment Interactions; The Tropical & Subtropical Regions	Human		
February 2024	22	20	4. Regional Cultures	The Making of	Debate/ Discussion a. Participation b. Knowledge Picture Collection/Collage making	
			5. Century political Formations	Eighteenth		
			6. Equality	Struggles for		
			7. Desert	Life in the		
			<b>PWT 4</b>			
March 2024	25	12	Revision <b>Term test 2</b>			



NAVODAYA VIDYALAYA SAMITI

CLASS VIII

SUBJECT: ART (VISUAL)

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN-TOPICS AND SUB-TOPICS TO BE COVERED	MEDIUM / MATERIALS	PROJECTS/ART INTEGRATED PEDAGOGY ACTIVITIES PRESCRIBED	ASSESSMENT TOOL(S)/ PRACTICAL HANDS-ON ACTIVITIES PRESCRIBED
APRIL-2023	22	8	<b>Brief Study of Indian Traditional Paintings</b> <b>vii.</b> Madhubani Painting <b>viii.</b> Warli Painting <b>ix.</b> Kalighat Painting <b>x.</b> Phad painting <b>xi.</b> Miniature Painting <b>xii.</b> Gond Painting <b>xiii.</b> Kerala Mural Painting <b>xiv.</b> Patachitra painting	Pencil, Water colour, Acrylic colour	Select any two traditional paintings and Practice it. Prepare two final paintings. ICT tools may be used.	Understand the strength of drawing, usage of colour, composition and peculiarities of Indian traditional Paintings.
JULY 2023	25	8	<b>Brief Study of Indian Sculptures (3D visual Art)</b> Indus Valley Civilization, (Dancing Girl, The priest), Mauryan Period (The Lion Capital), Satavahana Period, Gandharan Art, Gupta Period, Chola Period	Pencil (for preparing detailed drawings of the sculptures), Clay, Paper Pulp, POP.	Do the detailed study of the sculptures by doing drawings and Prepare one sculpture with any one of the given medium. ICT tools may be used.	Understand the versatility, usage of medium, composition of the Indian Sculptures. Learn different types of sculptures (3D, Relief -high relief-low relief, Carved Sculptures etc.)

AUGUST 2023	26	8	<p><b>Still Life Painting</b> History of Still Life Painting. Study from the paintings of masters like <i>Pieter Claesz</i>, <i>Caravaggio</i>, <i>Paul Cezanne</i>, <i>Vincent van Gogh</i> etc. Form, Colour, Texture, Proportion, Light and Shade and Composition.</p>	Pencil, Water Colour, Acrylic Colour	Arrange 4 or 5 different objects by giving appropriate lighting and draw. Prepare one final still life painting. ICT tools may be used.	Learn the different texture character, colour and form of different objects. Understand light and shade
SEPTEMBER 2023	24	8	<p><b>Nature Study</b> Direct visual contact with natural objects. Observe keenly and draw from natural objects both living and nonliving things such as Tree, Birds, Plants, Flowers, Animals and fruits etc.</p>	Pencil, Pen, Ink and Pencil Colour	Study directly from outdoor by doing drawings and prepare 5 detailed (final) drawings of the natural objects. ICT tools may be used.	Understand the character, details, colour, texture and form of both living and nonliving natural objects. It gives a deep Understanding about nature.
OCT-NOVEMBER 2023	30	10	<p><b>Life study</b> Students primarily practice drawing from live models. Quick sketches from short active poses and more detailed drawings from long poses. (k) Principles of drawing through careful study of the human form. (l) Observation (m) Figure construction (n) Modeling (o) Human anatomy (p) Composition (q) Proportion</p>	Pencil, Charcoal	After doing quick sketches from different angles prepare one neat life study drawing with light and shade on a half imperial paper. ICT tools may be used.	Students learn the principles of drawing through careful study of the human form. Understand the human anatomy and many skills in life drawing that will apply to future study.

DECEMBER 2023	25	8	<p style="text-align: center;"><b>Landscape</b></p> <p>History of Landscape Painting. Representational, Impressionistic and Abstract. Study from the paintings of masters like Joseph William Turner, John Constable, Camille Pissarro, Paul Cézanne, Claude Monet, Vincent Van Gogh, Chinese Landscapes, Rajasthani and Pahari, Mughal etc.</p>	Pencil, Water Colour, Acrylic Colour	After doing pencil sketches from outdoor, select a suitable angle and prepare one neat landscape painting on a half imperial Or quarter imperial paper. ICT tools can be used.	Learn the details, colour, texture and form of the nature and natural objects. It gives a deep understanding about nature. Landscape paintings often construe a certain mood or emotion – they are incredible tools for creating an atmosphere.
JANUARY 2024	20	6	<p style="text-align: center;"><b>Poster Design</b></p> <p>Introduction History Introduce some successful Posters. m) Identify the goal of your poster. n) Consider your target audience. o) Decide where you want to share your poster. p) Composition and Design q) Pick a relevant colour scheme. r) Use varied fonts to create visual hierarchy. s) Use of suitable captions.</p>	Pencil, Water Colour, Acrylic Colour. For digital design, computer and suitable software.	Prepare one neat outdoor or indoor Poster on a half imperial or quarter imperial paper. Prepare one digital poster using suitable software.	A great way to show the creativity, design sense, idea (should be presented in brief) creation of caption etc.

FEBRUARY 2024	26	8	<p><b>Photography Brief</b> History of Photography. Introduction to Camera. Learn to hold the camera properly. Understand the exposure triangle (Aperture, Shutter speed, and ISO). Introduction to the basics of the four elements of photography: light, color, composition, and subject. Depth of field. Different types of lens. Use of tripod, Photo editing.</p>	DSLR/Mirror less Camera, Tripod, Computer with editing software	All children should take minimum five photographs each. The subject and exposure should be different in each photograph. The soft copy of the photographs should be edited and saved for the portfolio submission.	Students will be able to handle and take photographs with DSLR/Mirror less camera. They will learn both theoretical part and practical as well.
MARCH 2024			<p>Submission of Portfolio. All students should submit one portfolio each containing one write up on Brief Study of Indian Traditional Paintings, Brief Study of Indian Sculptures, one Still Life Painting, five detailed Drawings of Natural objects, one Life Study Drawing, one Landscape Painting, Two Posters, 5 Photographs (soft copy) And one Art integrated Study of any paired state Painting( soft copy)</p>			

Note:

- As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning model which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximum usage of ICT, a well-equipped Art Room with computer, Internet connection, required software and other facilities are to be ensured.
- Minimum two workshops in an academic year may be conducted. Professional artists as well as the Art Teachers from the nearby JNVs are to be invited.

NAVODAYA VIDYALAYA SAMITI

Class: VIII

SUBJECT: COMPUTER (Basic and Foundation)

Distribution of Marks

Unit No.	Unit Name	Marks		Periods	
		Theory	Practical	Theory	Practical
1	Introduction to Excel -2	20	20	10	10
2	Introduction to HTML	20	20	6	12
3	Introduction to Problem Solving and Programming	10	10	8	7
	Total	50	50	24	29

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
APRIL 2023	22	08	40 M	<b>INTRODUCTION TO EXCEL-2</b> <b>WORKING WITH SHEETS</b> z) Creating / deleting sheets aa) Renaming sheets. bb) Copying / moving sheets cc) Inserting new row and column. dd) Deleting / hiding the rows and columns	Laboratory Practice to be done on all the concepts Creating, Deleting, Renaming, Copying, Moving sheets and Row Insertion/deletion, Column Practical test can be conducted.	PWT-01

JULY 2023	13	04		<p><b>INTRODUCTION TO EXCEL-2</b></p> <p><b>WORKING WITH SHEET</b></p> <p>ee) Changing the width and height of the column and row ff) Finding and select the data in a given range.</p>	<p>Insertion/deletion, Changing width and height of rows and columns.</p>	
JULY / AUGUST 2023	25	08		<p><b>VIEW MENU</b></p> <p>gg) Gridlines. hh) Freeze panes. ii) View side by side jj) Synchronous scrolling. kk) Merging the cells. ll) Split the cells.</p> <p><b>WORKING WITH CHARTS</b></p> <ul style="list-style-type: none"> <li>• Create a chart</li> <li>• Edit a chart</li> <li>• Print a chart</li> <li>• Create a chart for a mathematical equation.</li> </ul>	<p><b>Laboratory:</b> Practice to be done on all the concepts (Showing grid lines, freezing panes, side by side view, merge cells, split cells, synchronous scrolling) Practical test can be conducted.</p> <p><b>Laboratory:</b> Practice to be done on all the concepts (Chart creation, editing, printing, mathematical equation) Practical test can be conducted.</p>	<p><b>PWT-02</b></p>

AUGUST / SEPTEMBER 2023	31	12	40M	<p><b>INTRODUCTION TO HTML</b></p> <p>Uses of HTML, HTML tags, Head, Title, Body, Empty and Container tags, Heading (H1 to H6), &lt;Br&gt;,&lt;hr&gt; and &lt;comment&gt;</p> <p>Background colour, Font, Bold, Italic, Text Alignment and Paragraph</p>	<p>Children should be made familiar with the text editor.</p> <ol style="list-style-type: none"> <li>1. Design a page in A4 sheet using all the tools taught.</li> <li>2.Laboratory Practice to be done on all the concepts (Writing HTML tags, putting heading, changing background colour of web page, changing font style, size, colour, text alignment, writing paragraphs, creation of lists, etc)</li> <li>3.Create a web page</li> </ol>	
<b>MID-TERM-1</b>						
OCTOBER / NOVEMBER 2023	18	06		<p><b>LIST</b></p> <ul style="list-style-type: none"> <li>• Ordered list.</li> <li>• Unordered list.</li> <li>• Definition list.</li> </ul> <p>Background image</p> <p>Inserting image tag</p> <p>Anchor tag</p> <p>hyperlink</p>	<ol style="list-style-type: none"> <li>1. Design web page(s) in the same way that you have created in A4 sheet, using HTML Concepts.</li> <li>2. Laboratory Practice to be done on all Changing background image, adding image(s), showing flash message, linking pages) Create web pages and link them using hyperlinks.</li> </ol>	<b>PWT-03</b>

DECEMBER 2023 / JANUARY 2024	44	15	20M	<p><b>INTRODUCTION TO PROBLEM SOLVING PROGRAMMING</b></p> <ul style="list-style-type: none"> <li>✓ Steps for problem solving.</li> <li>✓ Introduction of Algorithm.</li> <li>✓ Understanding and preparing Flowcharts.</li> </ul>	<p>1. Draw a flow chart of steps involved in a program for solving simple computational problems</p> <p>2. Practical through Scratch online flowchart drawing tool for developing flowchart Practical through Scratch online platform.</p> <p>Prepare a Chart on</p> <p>1. Types of Programming Languages</p> <p>2. Evolution of Programming Languages</p> <p>3. Prepare posters on examples of programming</p> <p>4. Languages.</p> <p>Any Assessment methodology can be used to assess the knowledge of students</p>	PWT-04
				<ul style="list-style-type: none"> <li>• Evolution of programming language</li> <li>• Types of programming language</li> <li>• Pseudo coding</li> <li>• Program</li> <li>• Compiler</li> <li>• interpreter</li> </ul>		
<b>FEBRUARY - REVISION</b>						
<b>MARCH YEARLY EXAMINATION</b>						

**Reference Books:**

- m) **Beginning Excel 2019**, Noreen Brown, Barbara Lave, Julie Romey, Open Oregon Educational Resources.
- n) **HTML & CSS the complete reference** by Powell, Thomas A, Published by McGraw-Hill.
- o) **Programming for Problem Solving**, R.S. Salaria, KHANNA PUBLISHING HOUSE.
- p) **Problem solving and Programming Concepts**, 9<sup>th</sup> edition Maureen Sprankle Jim Hubbard.



- q) **Flowchart and Algorithm Basics the Art of Programming Flowchart**, A.B. Chaudhuri, **Mercury Learning and Information**.
- r) Programming for Problem Solving, Atul P. Godse, UNICORN Publishing Group.

NAVODAYA VIDYALAYA SAMITI

CLASS: VIII

SUBJECT: English

S. No.	Sections	Marks allotted
1	Section A - Reading	15 Marks
2	Section B - Writing	15 Marks
3	Section C - Grammar	10 Marks
4	Section D - Literature	40 Marks
	<b>Total Marks</b>	<b>80 Marks</b>
	Internal Assessment	20 Marks
	<b>Grand Total</b>	<b>100 Marks</b>

Month	No. of Days	No. of Periods	Main Topics and Sub – Topics to be Covered	Activities/Projects/Experiments to be held/Specific Assessment Tools (Suggested)
APRIL 2023	22	28	<p><b>Honey Dew-Poem</b> 1.The Ant and the Cricket</p> <p><b>Honey Dew-Prose</b> 1.The Best Christmas Present in the World</p> <p><b>It So Happened</b> • How the Camel Got His Hump</p> <p><b>Grammar &amp; Composition</b> 1.Writing Informal letters- (Request/Complaint/Enquiry/Application) • Notice Writing 3.Use of Past Tense- simple, progressive and perfect tenses 4.Nouns and Adjectives</p>	<p>Preparation of a collage of War photos and newspaper cuttings,</p> <p>Consequences of war- Discussion in groups and group presentations,</p> <p>Carol songs and Videos on Christmas Celebration</p> <p>Role-Play for Ant and the Cricket,</p> <p>Story Making</p>

JULY 2023	23	28	<p><b>Honey Dew-Prose</b> 2.The Tsunami 3.Glimpses of the Past</p> <p><b>It So Happened</b> 2.Children at Work 3. The Selfish Giant</p> <p><b>Grammar &amp; Composition</b> 1. Active and Passive Voice. 2.Reported Speech 3.Story Writing 4.Phrasal Verbs 5.Subject-Verb agreement 6. Unseen Passage 7.Forms of Verbs</p>	<p>Projects on Natural Disasters- Earthquake, Avalanche, Flood, Landslide etc.</p> <p>Skits on Child labour, Survey in their village about child labour, RTE-Act Discussion, Float making-garden models.</p>
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Periodic Written Test- 1/UT1 - From 17 July 2023 to 19 July 2023

AUGUST 2023	23	28	<p><b>Honey Dew-Poem</b> 2.Geography Lesson 3.Macavity the Mystery Cat</p> <p><b>Honey Dew-Prose</b> 4. Bepin Choudhury's Lapse of Memory</p> <p><b>It So Happened</b> 4.The Treasure Within 5.Princess September</p> <p><b>Grammar &amp; Composition</b> 1.Use of have to/has to/had to 2.Idioms and Phrases 3. Differentiating simple past and Present perfect 4.Re-Arranging jumbled words</p>	<p>Narration of flight journey experience.</p> <p>Toy making on pets</p> <p>Self-Awareness Survey with SEL components</p> <p>Conduct of Mock interviews, significance of freedom-essay writing,</p> <p>Experience sharing of children playing prank and its effects.</p>
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Periodic Written Test 2 /UT2 – From 21 August 2023 to 23 August 2023

SEPTEMBER 2023	24	30	<p><b>Honey Dew-Poem</b> 4. The Last Bargain 5. The School Boy</p> <p><b>Honey Dew-Prose</b> 5. The Summit Within 6. This is Jody's Fawn</p> <p><b>It So Happened</b> 6. The Fight</p> <p><b>Grammar &amp; Composition</b> 1. Noun forms 2. Phrases 3. Transitive and intransitive verbs 4. Indirect Speech</p>	<p>Role-play</p> <p>Making tunes for the poem Short films on poems</p> <p>Relevant videos on Mountaineering National Geography videos</p> <p>Picture Album of famous Mountaineers</p> <p>Description of pets</p> <p>Film-Yearling series</p> <p>Cruelty to animals-discussion, Experience sharing of quarrels</p>
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TERM-I EXAM – From 03 October 2023 to 14 October 2023

OCTOBER 2023 & NOVEMBER 2023	20	28	<p><b>Honey Dew-Prose</b> 7.A Visit to Cambridge 8. A Short Monsoon Diary</p> <p><b>Honey Dew-Poem</b> 6. When I Set-out for Lyonesse 7.On the Grasshopper and the Cricket</p> <p><b>It So Happened</b> 7.The Open Window</p> <p><b>Grammar &amp; Composition</b> 1.Use of all and both 2.Adjectives (degrees of comparison) 3.Participles 4.Useof Simple Past and Past Continuous 5.Words indicating sounds 6.Use of 'enough'</p>	<p>Holiday project: Interview with a teacher from the old school/a physically challenged person of the locality during holidays.</p> <p>Book review on short stories</p>
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Periodic Written Test 3 /UT3 – From 07 December 2023 to 09 December 2023

DECEMBER 2023	24	30	<p><b>Honey Dew-Prose</b> l) The Great Stone face-I</p> <p><b>It So Happened</b> 8.Jalebis 9. The Comet-I</p> <p><b>Grammar &amp; Composition</b> 1.Formation of nouns adding suffixes 2. Formation of adverbs from adjectives. 3.usage of verb forms</p>	<p>Write a story that you heard about temple/Hill/Forest/Pond of your locality.</p> <p>Write a recipe of making Jalebis consulting with your parents.</p>
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JANUARY 2024	21	26	<p><b>Honey Dew-Prose</b> 10.The Great Stone Face-II</p> <p><b>It So Happened</b> 10.The Comet-II</p> <p><b>Grammar &amp; Composition</b> 1.Expressing future in different ways-will, is/am/are + going to, Simple present</p>	<p>Speak about the superstitions existing at home/locality.</p> <p>Preparation of dictionary with words from the lessons.</p>
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PeriodicWrittenTest4/UT4 - From01 February 2024to 03 February 2024

FEBRUARY 2024	23	28	<p><b>It So Happened</b> 11. Ancient Education System in India</p> <p><b>Grammar &amp; Composition</b> 1.Article Writing</p>	<p>Book Review on morals stories based on Upanishads</p> <p>Prepare a list of Upanishads/Vedas available in the library.</p>
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MARCH 2024	12	18	Revision for Term-II Exam	
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TERM- II EXAM - From 14 March 2024 to 27 March 2024

Note:

1. Relevant unit from work book may be taken up.
2. Internal Assessment as per the guidelines given by CBSE/NCERT may be done.
3. Any changes in the syllabus, if announced by CBSE/NCERT during the academic year 2023-24 has to be incorporated in the split-up syllabus by the concerned teacher and principal accordingly.
4. Classroom transactions may be corresponding to NEP-2020.

## नवोदय विद्यालय समिति

कक्षा : आठवीं

विषय : हिंदी (पाठ्यक्रम - ब )

क्रम संख्या	अध्याय / इकाई का नाम	उप भारांक	भारांक
•	(अ) अपठित गद्यांश (आ) अपठित पद्यांश	5x1= 5 5x1=5	10
02	व्याकरण – पाठ्य पुस्तक से पाठ्यक्रमानुसार	20x1=20	20
03	दूर्वा भाग -3  (अ) पठित गद्यांश पर आधारित (आ) पठित पद्यांश पर आधारित  पाठ्य पुस्तक पर आधारित प्रश्न - बहुविकल्पीय प्रश्न- लघु उत्तरीय प्रश्न – e) गद्य खंड - (आ) पद्य खंड -	1+1+1+1+1=5 1+1+1+1+1=5  8x1=8  6X2=12 6X2=12	10  08  24
04	रचनात्मक लेखन – (अ) पत्र लेखन / प्रार्थना पत्र (आ) निबंध लेखन	1X4=4 1x4=4	08
	कुल अंक	80	80

	आंतरिक मूल्यांकन	20	
	समेकित योग	100	

समेकित योग					100				
PWT-1	PWT-2	TERM-1	INT. ASS.	TOTAL	PWT-3	PWT-4	TERM-2	INT. ASS.	TOTAL
40	40	80	20	100	40	40	80	20	100

## नवोदय विद्यालय समिति

कक्षा : आठवीं

विषय : हिंदी (पाठ्यक्रम-ब)

प्रथम सत्र -2023-2024				
माह का नाम	दिनों की संख्या	कालांशों की संख्या	पाठ का नाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजना कार्य / परीक्षा
अप्रैल 2023	22	30	<p>दूर्वा भाग -3</p> <p>1- गुड़िया (कुँवर नारायण)</p> <p>2- दो गौरैया (भीष्म साहनी)</p> <p>व्याकरण – व्याकरण की परिभाषा, परिचय,स्वर और व्यंजन,स्रोतों के आधार पर शब्द के भेद, 'र' के विभिन्न रूप, नुक्ता</p>	विषय सम्बद्ध क्रिया कलाप



जुलाई 2023	22	30	<p><b>दूर्वा भाग -3</b></p> <p>3- चिट्ठियों में यूरोप (सोमदत्त)</p> <p>4- ओस (सोहनलाल द्विवेदी)</p> <p><b>व्याकरण</b> -संज्ञा,लिंग,विलोम शब्द, पत्र लेखन</p>	<p>विषय सम्बद्ध क्रिया कलाप</p> <p><b>आवधिक परीक्षा -1</b></p>
अगस्त 2023	23	•	<p><b>दूर्वा भाग -3</b></p> <p>5- नाटक में नाटक (मंगल सक्सेना)</p> <p>6- सागर यात्रा (कर्नल टी.सी.एस.चौधरी)</p> <p>7- उठ किसान ओ (त्रिलोचन)</p> <p><b>व्याकरण</b> -वचन,पर्यायवाची</p>	<p>विषय सम्बद्ध क्रिया कलाप</p> <p><b>आवधिक परीक्षा -2</b></p>
सितंबर 2023	23	31	<p><b>दूर्वा भाग -3</b></p> <p>8-सस्ते का चक्कर (सूर्यबाला)</p> <p>9-एक खिलाड़ी की कुछ यादें (केशवदत्त)</p> <p>10-बस की सैर (वल्ली कानन)</p> <p><b>व्याकरण</b> -उपसर्ग, प्रत्यय,मुहावरे, अपठित गद्यांश,अपठित पद्यांश,निबंध लेखन</p> <p><b>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</b></p>	<p>विषय सम्बद्ध क्रिया कलाप</p>

द्वितीय सत्र -2023-2024

अक्टूबर /नवंबर 2023	18	24	<p><b>दूर्वा भाग -3</b></p> <p>11- हिंदी ने जिनकी जिंदगी बदल दी - मारिया नेज्जैशी (जय प्रकाश पांडेय)</p> <p>12- आषाढ़ का पहला दिन (भवानी प्रसाद मिश्र)</p> <p>13- अन्याय के खिलाफ़ (चकमक से)</p> <p><b>व्याकरण -सर्वनाम ,विशेषण</b></p>	<p><b>अर्द्ध वार्षिक परीक्षा -2023</b></p>
दिसंबर 2023	22	30	<p><b>दूर्वा भाग -3</b></p> <p>14-बच्चों के प्रिय श्री केशव शंकर पिल्लै (आशा रानी व्होरा)</p> <p>15- फ़र्श पर (निर्मला गर्ग)</p> <p><b>व्याकरण – क्रिया, काल, श्रुतलेख</b></p>	<p>विषय सम्बद्ध क्रिया कलाप</p> <p><b>आवधिक परीक्षा -3</b></p>
जनवरी 2024	20	27	<p><b>दूर्वा भाग -3</b></p> <p>16- बूढ़ी अम्मा की बात (संकलित)</p> <p>17-वह सुबह कभी तो आएगी (सलमा)</p> <p><b>व्याकरण - अपठित गद्यांश, अपठित पद्यांश</b></p>	<p>विषय सम्बद्ध क्रिया कलाप</p>
फरवरी 2024	22	30	<p><b>दूर्वा भाग -3</b></p> <p>18-आओ पत्रिका निकालें (अतिरिक्त पठन के लिए -सर्वेश्वर दयाल सक्सेना)</p> <p>19-आह्वान (अतिरिक्त पठन के लिए -अशफ़ाक उल्ला ख़ाँ)</p> <p><b>व्याकरण – पत्र लेखन, निबंध लेखन</b></p>	<p>विषय सम्बद्ध क्रिया कलाप</p> <p><b>आवधिक परीक्षा - 4</b></p>
मार्च 2024	11	15	<p>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</p> <p><b>वार्षिक परीक्षा</b></p>	

**विषय संवर्धक क्रियाकलाप**  
**(Subject Enrichment Activities)**

माह का नाम	पाठ का नाम	क्रियाकलाप	आंतरिक मूल्यांकन
अप्रैल 2023	a) गुड़िया (कुँवर नारायण) b) दो गौरैया (भीष्म साहनी)	1-अपने मनपसंद खिलौने के बारे में लिखिए । 2-अपने गाँव / शहर में दिखने वाले पशु-पक्षियों के बारे में जानकारी एकत्रित करें ।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10
जुलाई 2023	3 -चिट्ठियों में यूरोप (सोमदत्त) 4-ओस (सोहनलाल द्विवेदी )	1-अपने मनपसंद देश की जानकारी एकत्रित करके मित्र को पत्र लिखिए । 2-मौसम / ऋतुओं की सूची बनाकर पसंदीदा मौसम के बारे में चर्चा करें ।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10
अगस्त 2023	5-नाटक में नाटक ( मंगल सक्सेना ) 6-सागर यात्रा (कर्नल टी .सी . एस . चौधरी ) 7-उठ किसान ओ (त्रिलोचन)	1-पाठ का मंचन (अन्य नाटक / एकांकी ) करें । 2-अन्य साहसिक यात्राओं, कार्यों के बारे में जानकारी संग्रह करके कक्षा में सुनाइए । 3- वर्षा से संबंधित अन्य कविता कक्षा में सुनाइए / वर्षा पर स्वयं कोई कविता लिखिए ।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10

<p>सितंबर 2023</p>	<p>8 -सस्ते का चक्कर (सूर्यबाला)</p> <p>9-एक खिलाड़ी की कुछ यादें (केशवदत्त)</p> <p>10-बस की सैर (वल्ली कानन)</p>	<p>1-अपने / साहसिक बाल पुरस्कृत बच्चों से जुड़ी घटनाओं की अभिव्यक्ति करें।</p> <p>2-अपने पसंदीदा खेल के बारे में जानकारी एकत्रित करके मित्रों से चर्चा करें।</p> <p>3-आपके घर पर बचत करने के कौन -कौन से तरीके हो सकते हैं? उनकी सूची बनाइए।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p>अक्टूबर / नवंबर 2023</p>	<p>11- हिंदी ने जिनकी जिंदगी बदल दी -मारिया नेज्जैशी (जय प्रकाश पांडेय)</p> <p>12- आषाढ़ का पहला दिन (भवानी प्रसाद मिश्र)</p> <p>13- अन्याय के खिलाफ़ (चकमक से)</p>	<p>1-विदेशी हिंदी साहित्यकारों की सूची बनाइए एवं उनके द्वारा हिंदी में किए गए योगदान को लिखिए ।</p> <p>2-वर्षा से संबंधित अपने प्रदेश के कवि की रचना के बारे में अभिव्यक्ति करें ।</p> <p>3-अपने क्षेत्र / प्रदेश / देश के स्वतंत्रता सेनानियों के योगदान के बारे में लिखें।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p>दिसंबर 2023</p>	<p>14- बच्चों के प्रिय श्री केशव शंकर पिल्लै (आशा रानी व्होरा)</p> <p>15- फ़र्श पर (निर्मला गर्ग)</p>	<p>1-अपने शौक से संबंधित वस्तुओं को संग्रह करने में आने वाली मुश्किलों के बारे में अभिव्यक्ति करें।</p> <p>2-प्रकृति /अपने आस-पास की किसी मनपसंद विषय पर स्वयं कविता लिखिए।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>

<b>जनवरी 2024</b>	<p>16- बूढ़ी अम्मा की बात (संकलित)</p> <p>17- वह सुबह कभी तो आएगी (सलमा)</p>	<p>1 -पेड़ /जंगलों के महत्व पर निबंध लेखन कीजिए। .</p> <p>2 -प्राकृतिक / मानव निर्मित आपदाओं की सूची बनाइए और उनके बचाव के कौन-कौन से तरीके है उनके बारे में जानकारी एकत्रित करके लिखिए।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<b>फरवरी 2024</b>	<p>18 -आओ पत्रिका निकालें (अतिरिक्त पठन के लिए -सर्वेश्वर दयाल सक्सेना)</p> <p>19- आह्वान (अतिरिक्त पठन के लिए -अशफ़ाक उल्ला खाँ)</p>	<p>1-अपने विद्यालय में स्वयं हिंदी पत्रिका को तैयार करें।</p> <p>2-देश के अन्य स्वतंत्रता संग्राम सेनानियों की कविताओं को पढ़ें।</p>	<p><b>1 बहुविकल्पीय प्रश्न -10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>

**नोट -**

1-निम्नलिखित पाठ वार्षिक परीक्षा में पूछे जाएँगे। (वार्षिक परीक्षा प्रश्न पत्र के लिए 30% अर्द्ध वार्षिक परीक्षा के पाठ शामिल है। )

- 1- ओस
- 2- नाटक में नाटक
- 3- सस्ते का चक्कर

**व्याकरण -**

- 1-स्रोतों के आधार पर शब्द भेद
- 2-पर्यायवाची शब्द
- 3-उपसर्ग

2- (PWT के साथ ) आंतरिक मूल्यांकन हेतु विषयसंवर्धन क्रियाकलापों के संदर्भ में शिक्षक अपने स्तर पर स्वेच्छानुसार विषय देकर मूल्यांकन कर सकते है।

3-संवाद / वार्तालाप संबंधित क्रियाकलाप अवश्य कराएँ।

4 - कला / कहानी / खेल / खिलौना समेकित शिक्षणशास्त्र का यथा संभव शिक्षण में प्रयोग करें।

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नवोदय विद्यालय समिति

कक्षा-8

विषय-हिंदी 'अ'

विषय कोड- 002

वार्षिक परीक्षा हेतु अंक भार विभाजन			
खंड 'अ'			
क्रमांक	विषय वस्तु एवं परीक्षा हेतु अंक विभाजन	उपभारांक	कुल भार
1	अपठितांश- [क] अपठित गद्यांश 1+1+1+1+1 [ख] अपठित काव्यांश 1+1+1+1+1	05 05	10
2	व्याकरण पाठ्यक्रम अनुसार- 1×20	20	20
3	पाठ्यपुस्तक- वसंत भाग- 3 [क] गद्यांश आधारित प्रश्न 1+1+1+1+1 गद्य खंड आधारित प्रश्न 2+2+2+2+2 [ख] काव्यांश आधारित प्रश्न 1+1+1+1+1 काव्य खण्ड आधारित प्रश्न 2+2+2+2+	05 10 05 10	20
4	भारत की खोज [पूरक पुस्तक] [क] बहुविकल्पीय प्रश्न 1×8 [ख] लघु उत्तरीय प्रश्न 2×2	08 04	12
5	विचार-अभिव्यक्ति [क] पत्र लेखन [विकल्प सहित] [ख] निबंध लेखन [विकल्प सहित]	04 04	08
	कुल		80
	आंतरिक मूल्यांकन		20
	सामयिक आकलन	05	
	बहुविध आकलन	05	
	पोर्टफोलियो	05	
	विषय समृद्धि क्रियाकलाप	05	
	कुल योग		100
वार्षिक अंक वर्गीकरण प्रारूप			

सामयिक आकलन	बहुविध आकलन	पोर्टफोलियो	विषय समृद्धि क्रियाकलाप	अर्धवार्षिक परीक्षा	कुल योग
05	05	05	05	30	50
सामयिक आकलन	बहुविध आकलन	पोर्टफोलियो	विषय समृद्धि क्रियाकलाप	वार्षिक परीक्षा	कुल योग
05	05	05	05	30	50

नवोदय विद्यालय समिति, नोएडा  
पाठ्यक्रम-विभाजन-2023-24

कक्षा-8

विषय-हिंदी 'अ'

प्रथम सत्र 2023-24

माह	कार्य दिवस	कालांश	पाठका नाम/ विषयवस्तु	विषय संबंधित क्रियाकलाप
अप्रैल 2023	21	25	अपठित पद्यांश वसंत भाग-3 1.लाखकी चूड़ियां [कहानी]-कामनाथ 2.बस की यात्रा- (व्यंग्य ) हरिवंश परसाई व्याकरण -भाषा 3.वर्ण विचार: संक्षिप्त परिचय 4.विकारी शब्द: संज्ञा और सर्वनाम 4.अविकारी शब्द 5.अपठित गद्यांश	मशीनीकरण उत्पन्न प्रभाव का अध्ययन कर सूची निर्माण करना
जुलाई 2023	26	30	वसंत भाग-3 1.दीवानों की हस्ती - (कविता ) भगवती चरण शर्मा 2.चिड़िया (कविता)- रामदरश मिश्र (केवल पढ़ने के लिए) भारत की खोज- 3. अहमदनगर का किला, तलाश 4.शब्द रचना: संरचना और अर्थ के आधार पर 5.पत्र-लेखन	शब्द वर्गीकरण चार्ट तैयार करना  शहीदों के संघर्षों पर चर्चा करते हुए उनके नामों एवं कार्यों का उल्लेख करना
अगस्त 2023	26	30	वसंत भाग-3	शिष्टाचार संबंधी नियमों का विवरण- चार्ट निर्माण

			<p>1.भगवान के डाकिए (कविता) रामधारी सिंह दिनकर कदम मिल कर चलना होगा ( कविता) अटल बिहारी वाजपेई [केवल पढ़ने के लिए]</p> <p>2.क्या निराश हुआ जाए (निबंध) हजारी प्रसाद द्विवेदी भारत की खोज -</p> <p>3.सिंधु घाटी की सभ्यता में आर्यों का आना से अशोक तक व्याकरण:</p> <p>4.कारक और क्रिया</p> <p>5.अपठित पद्यांश</p> <p>6.पत्र-लेखन</p>	करना
प्रथम आवधिक परीक्षा				
सितंबर 2023	23	26	<p>वसंत भाग-3</p> <p>1..यह सबसे कठिन समय नहीं- कविता जया जादवानी</p> <p>2.पहाड़ से ऊँचा आदमी [जीवनी] सुभाष ठाडे [केवल पढ़ने के लिए]</p> <p>3.कबीर की साखियां [कविता]- कबीर भारत की खोज:</p> <p>4.युगों का दौर व्याकरण संधि</p> <p>5.वाक्य: अर्थ और रचना के आधार पर प्रकार</p> <p>6.मुहावरे एवं लोकोक्तियां</p>	<p>प्रेरक विभूतियों के जीवन प्रभावों का वर्णन</p> <p>कबीर की साखियों का सस्वर वाचन</p>
द्वितीय आवधिक परीक्षा				
अक्टूबर 2023	15	20	<p>वसंत भाग-3</p> <p>1.सुदामाचरित [कविता]- रतन दास भारत की खोज-</p> <p>2.नई समस्याएं व्याकरण</p> <p>3.लिंग, वचन</p> <p>4.समास</p>	<p>सिनेमा में आए हुए क्रमिक परिवर्तन व तकनीकी ज्ञान के प्रयोग का वर्णन</p>
अर्द्धवार्षिक परीक्षा				
द्वितीय सत्र				



नवंबर 2023	18	20	<p>वसंत भाग-3</p> <p>1.जहां पहिया है ( रिपोर्टाज ) -पी साईनाथ</p> <p>2.पिता के बाद- ( कविता ) मुक्ता [केवलपढ़ने के लिए]</p> <p>भारत की खोज-</p> <p>3.अंतिम दौर-एक</p> <p>व्याकरण</p> <p>4.विशेषण और उसकी अवस्थाएं</p> <p>5.निबंध-लेखन</p>	साइकिल के प्रयोग के लाभ व पर्यावरणीय प्रभावों का अध्ययन
दिसंबर 2023	20	25	<p>वसंत भाग-3</p> <p>1.अकबरी लोटा (कहानी) अन्नपूर्णाचंद वर्मा</p> <p>2.सूर के पद -कविता</p> <p>भारत की खोज –</p> <p>3.अंतिम दौर- दो</p> <p>व्याकरण-</p> <p>4.क्रिया</p>	<p>गांधी जी के द्वारा किए गए आंदोलनों का ऐतिहासिक महत्व व प्रभावों का अध्ययन करना</p> <p>स्वतंत्रता संघर्षों पर चर्चा करते हुए उनके महत्व पर प्रकाश डालना</p>
जनवरी 2024	15	20	<p>वसंत भाग-3</p> <p>1.पानी की कहानी- (लेख) रामानंद तिवारी</p> <p>2.हम पृथ्वी की संतान (कविता) -प्रभु नारायण ( केवल पढ़ने के लिए)</p> <p>भारत की खोज-</p> <p>3.तनाव</p> <p>4.काल और कारक</p>	पानी के महत्व को ध्यान में रखते हुए उसके संरक्षण के उपाय समझाना
तृतीय आवधिक परीक्षा				
फरवरी 2024	25	30	<p>वसंत भाग-3</p> <p>1.बाज और सांप( कहानी )निर्मला वर्मा</p> <p>भारत की खोज-</p> <p>2.दो पृष्ठभूमियाँ - भारतीय और अंग्रेजी</p>	गांधीजी का संपूर्ण जीवन परिचय
चतुर्थ आवधिक परीक्षा				
मार्च			पुनरावृत्ति [विद्यार्थियों की आवश्यकता अनुसार]	

2024				
वार्षिकपरीक्षा				

टिप्पणी :-

वार्षिक परीक्षा में अर्द्धवार्षिक परीक्षा के पाठ्यक्रम से 30% पाठ्यक्रम भी शामिल है।

प्रथम सत्र के निम्नलिखित अध्याय वार्षिक परीक्षा के प्रश्नपत्र में सम्मिलित किए गए हैं-

1. बस की यात्रा
2. भगवान के डाकिए
3. तलाश (भारत की खोज )

व्याकरण-

1. वर्ण विचार
2. संज्ञा
3. कारक

निर्धारित पाठ्य पुस्तकें

1. वसंत भाग-3 (एन सी ई आर टीद्वारा प्रकाशित )
2. भारत की खोज (एन सी ई आर टीद्वारा प्रकाशित)
3. व्याकरण (एन सी ई आर टी द्वारा प्रकाशित)

NAVODYA VIDYALAYA SAMITI

CLASS: -VIII

SUBJECT-MATHEMATICS

Chapter No.	Name of The Chapter / unit	Marks	Periods
<b>TERM-01</b>			
1	RATIONAL NUMBERS*	12	08
9	ALGEBRAIC EXPRESSIONS AND IDENTITIES*	16	10
3	UNDERSTANDING QUADRILATERALS*	12	16
2	LINEAR EQUATION IN ONE VARIABLE	14	08
6	SQUARES AND SQUARE ROOTS	14	10
7	CUBE AND CUBER OOTS	12	10
	Total	80	62
	Convert into 50	50	
	Internal Assessment	50	
	GrandTotal	100	
	Term-I (Weightage)	40%	
<b>TERM-02</b>			
11	MENSURATION	12	08
14	FACTORISATION	11	10
08	COMPARING QUANTITIES	10	16
05	DATA HANDLING	05	10
15	INTRODUCTION TO GRAPHS	05	08
12	EXPONENTS AND POWER	05	08
13	DIRECT AND INVERSE PROPORTION	08	10
TERM-I 30%	SIGNIFICANT TOPICS* RATIONAL NUMBERS UNDERSTANDING QUADRILATERALS ALGEBRAIC EXPRESSION AND IDENTITIES	24	30% OF TERM-1 SYLLABUS
	Total	80	70
	Convert in to 50	50	
	Internal Assessment	50	
	Grand Total	100	

	Term-II (Weightage)	60%	
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MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/ Chapter	Units/sub-units/ Topics/ Chapters to be covered	Details of Activity/Practical/ Projects to be given	Unit Tests / Formative Tests / Assignment
APRIL- 2023	20	08	12	<p>Review of Previous number systems, Operations and properties there of:</p> <p><b>ChapterNo.1 RATIONAL NUMBERS*:</b></p> <p>Rational numbers, Properties of Rational Numbers, Properties of 0 and 1, Multiplicative Inverse or Reciprocals, Operations of Rational Numbers.</p> <p><b>Deleted Topics:</b></p> <p>1.2.6 Negative of a number,</p> <p>1.2.7 Reciprocal,</p> <p>1.3 Representation of rational numbers on the number line,</p> <p>1.4 Rational numbers between two rational numbers (PageNo.11-20)</p>	<p><b>ACTIVITY-1</b></p> <p>Using number line locate rational numbers Between two rational numbers.</p>	ASIGNMENT-01
		10	16	<p><b>Chapter No.9 ALGEBRAIC EXPRESSIONS AND IDENTITIES*:</b></p> <p>Expressions, Number Line and an expression, Addition and Subtraction of Algebraic Expressions, Multiplication of Algebraic Expressions, multiplying a Monomial by a Monomial, Monomial by a Binomial, Monomial by a Trinomial, Binomial by a Binomial and Binomial by a Trinomial Products using Identities.</p> <p><b>Deleted Topics:</b></p> <p>9.1 Introduction,</p> <p>9.2 Terms, Factors and coefficients,</p> <p>9.3 Monomials, Binomials and Polynomials,</p> <p>9.4 Like and Unlike Terms(PageNo.137-139,140),</p> <p>9.10 What is an identity?</p> <p>9.11 Standard identities,</p> <p>9.12 Applying identities(PageNo.148-152)</p>		

JULY-2023	22	16	<p>Revision of Rational Numbers, Algebraic Expressions &amp; Identities</p> <p>12</p> <p><b>Chapter No.3 UNDERSTANDING QUADRILATERALS*:</b></p> <p>Curves, Diagonals, Convex and Concave Polygons, Regular and Irregular Polygons, Sum of the measures of the exterior angles of a Polygon. Kinds of Quadrilaterals, Trapezium, Kite and Parallelogram, Elements of a Parallelogram, Properties of a Parallelogram, Some special Parallelograms, Rhombus, Square and Rectangle. Properties of these Quadrilaterals.</p> <p><b>Deleted Topics:</b></p> <p>3.1 Introduction 3.2 Polygons, 3.2.1 Classification of polygons 3.2.2 Diagonals, 3.2.5 Angle sum property (Page No .37-42)</p>	<p><b>ACTIVITY-2</b></p> <p>To fold a paper 8 times in any way and unfold it then locates various concave and convex polygons.</p>	<p><b>ASSIGNMENT- 02</b> <b>PWT 1. [ 17 – 19 JULY 2023]</b></p>
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AUGUST-2023	23	08	<p>14 <b>Chapter No.2 LINEAR EQUATIONS IN ONE VARIABLE:</b></p> <p>Introduction, its word problems, solving equations having the variable on bothsides, Reducing equations to simpler form.</p> <p><b>Deleted Topics:</b></p> <p>2.2 Solving Equations which have Linear Expressions on one Side and Numbers on The other Side,</p> <p>2.3 Some Applications (PageNo.22-28),</p> <p>2.5 Some More Applications(PageNo.30-32),</p> <p>2.7 Equations reducible to the linear forms (PageNo.34-36)</p>	<p><b>ACTIVITY-3</b></p> <p>To solve linear equation by paper cutting and pasting.</p>	PERIODIC WRITTEN TEST - 2 (21 - 23 AUG-2023 )	
		10	<p>14 <b>Chapter No.6 SQUARES AND SQUARE ROOTS:</b></p> <p>Perfect Squares, Properties of square numbers, Patterns, Numbers between square numbers, adding odd numbers, A sum of consecutive natural numbers, Product of two consecutive even or odd natural numbers, Some more Patterns in square numbers, Finding the square of a number, Other Patterns in square, Pythagorean Triplets, Square roots, Finding square roots by repeated Subtraction, through Prime Factorization, by Division method.</p> <p><b>Deleted Topics:</b></p> <p>6.7 Estimating square roots (PageNo.107)</p>	<p><b>ACTIVITY-4</b></p> <p>To design number patterns and write their next ten steps</p>		
			<b>PWT 2 SYLLABUS:</b>			
			LINEAR EQUATIONS IN ONE VARIABLE, SQUARES AND SQUARE ROOTS			
SEPTEMBER 2023	24	10	12	<p><b>Chapter No.7 CUBE AND CUBE ROOTS:</b></p> <p>Cubes, Patterns, Smallest Multiple that is a perfect cube, Cube roots, Cube roots through prime factorization method</p> <p><b>Deleted Topics:</b></p> <p>7.3.2 Cube root of a cube number(PageNo.115-116)</p>	<p><b>ACTIVITY - 5</b></p> <p>Working with Patterns on Cube and Cube roots</p>	ASSIGNMENT - 03

				<p><b>SYLLABUS FOR TERM-01</b></p> <p>RATIONAL NUMBERS, ALGEBRAIC EXPRESSIONS, UNDERSTANDING QUADRILATERALS</p> <p>LINEAR EQUATIONS IN ONE VARIABLE, SQUARES AND SQUARE ROOTS</p> <p>CUBE AND CUBE ROOTS</p>		
				<p><b>REVISION AND HALF YEARLY EXAMINATION</b></p> <p>(03 OCT 2023 - 14 OCT 2023)</p>		
OCTOBER 2023	06	08	12	<p><b>TERM- 02</b></p> <p><b>ChapterNo.11 MENSURATION:</b></p> <p>Introduction, Area of a general Polygon, Solid shapes, Surface area of Cube ,Cuboids and Cylinder Volume of Cube, Cuboids and Cylinder, Volume and Capacity.</p> <p><b>DeletedTopics:</b>11.2 Let us Recall,11.3 Area of Trapezium (PageNo.169-175),11.4 Area of a General Quadrilateral(PageNo.192)</p>	<p><b>ACTIVITY-6</b></p> <p>To derive the formula for surface area of a cuboid and solid cylinder.</p> <p><b>ACTIVITY-7</b></p> <p>To compare the surface areas of two unit-cubes and the cuboids obtained</p> <p>By these unit cubes.</p>	
				<p><b>Autumn Break (23.10.2023 TO 15.11.2023)</b></p>		





		08	05	<p><b>Chapter No.15 INTRODUCTION TO GRAPHS:</b></p> <p>A Line Graph, Some Applications.</p> <p><b>Deleted Topics:</b></p> <p>15.1.1 A bar graph,15.1.2 A Pie graph,15.1.3 A histogram (PageNo.231-233),</p> <p>15.2 Linear Graphs 15.2.1 Location of a point,</p> <p>15.2.2 Coordinates(PageNo.240-243,248)</p>		ASSIGNMENT- 5 & 6
FEB- 2024	24	08	05	<p><b>Chapter No.12 EXPONENTS AND POWERS:</b></p> <p>Recall of Laws of Exponents, Power with Negative Exponents, Use of Exponents to express small numbers in Standard Form, Comparing very large numbers and very small numbers.</p> <p><b>Deleted Topics:</b> No Topic deleted</p>		PWT -4(01- 03February 2024)
		10	08	<p><b>ChapterNo.13 DIRECT AND INVERSE PROPORTIONS:</b></p> <p>Introduction, Direct Proportion, Inverse Proportion Practical Situations, Verbal Problems and other exercise problems.</p> <p><b>Deleted Topics:</b> No Topic deleted</p>	<p>ACTIVITY-11</p> <p>Identifying and listing some real-life situations on direct and Inverse proportions.</p>	
				<p><b>SYLLABUS FOR PWT 4 :</b></p> <p>INTRODUCTION TO GRAPHS, EXPONENTS AND POWERS,</p> <p>DIRECT AND INVERSE PROPORTIONS AND DATA HANDLING</p>		
MARCH- 2024	26			<p><b>REVISION</b></p>		
				<p><b>ANNUAL EXAM</b></p> <p><b>(14-27 MARCH 2024)</b></p>		

**Note: -**

The periods available for a month are calculated as per the Holidays/ vacations tentatively. However, extra classes may be taken if the syllabus part is not completed as per the suggested allotment.

Assignments to be given to students periodically.

This is prepared as per the PAP 2022 – 23 curriculum as the base. Please refer CBSE/ NCET Website for any changes.

The exact dates and time schedules of the PWT/HY/ Annual exams will be Intimated by NVS from time to time.

At least 10 activities have to be conducted excluding Art Education in Math project. Different lab activities are suggested in the NCERT website or link <https://ncert.nic.in/science-laboratory-manual.php?In=they> can be used.

Apart from the activities, one Art Education project in Math must be done by each student integrated with other scholastic subjects (As per CBSE guidelines).

Chapters marked with Asterisk sign (\*) will have 30% of their syllabus included for assessment in second term.

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NAVODAYA VIDYALAYA SAMITI

CLASS: VIII

SUBJECT: MUSIC

- 1) Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- 2) Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- 3) Students explore Local Folk Culture
- 4) Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concepts with a broader vision.
- 5) Students are exposed to the integration of latest technology in music.

			Main-Topics and Sub - Topics to be Covered	Projects/Art (Performing) Integrated Pedagogy- Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
APRIL/JUNE 2023	25	03	1. Prayer Song – “Karo Raksha Vipatti se” with original Bengali Version of the song penned by Rabindranath Tagore OR Bengali Song “Ekla Chalo Re”	<p>SUGGESTED ACTIVITIES</p> <ol style="list-style-type: none"> <li>1. word by word recitation of the song by teacher followed by students</li> <li>2. Discussion meaning of the song</li> <li>3. Recitation of tune by teacher followed by students.</li> </ol> <p><b>(Interdisciplinary Approach)</b></p> <ol style="list-style-type: none"> <li>1) Language &amp; Literature : • Associate the prayer song with the poem “THE LAST BARGAIN”, A VISIT TO CAMBRIDGE in Honey Dew (Textbook of English subject class VIII) and life of Hellen Keller (Given under the Chapter “Light” in Science Textbook of class VIII) • Students are asked to collect songs of Rabindranath Tagore which are translated to multi languages</li> <li>2) Social Science Students are exposed to the art &amp; culture of Bengal.</li> </ol>	<ol style="list-style-type: none"> <li>1) Vocal Performance /Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>2) Project Work – <ul style="list-style-type: none"> <li>• Students are asked to prepare charts Containing brief Information about population, education ratio, festivals, cousins, main crops, Water reservoirs, historical monuments, freedom fighters etc. of Bengal.</li> </ul> </li> </ol>

		03	<p>2. Theory :</p> <p>Life History of Pt.Vishnu Narayan Bhatkhande (Hindustani Music)</p> <p>OR</p> <p>Vaggeyakara Annamacharya (Carnatic Music)</p>	<ul style="list-style-type: none"> <li>• Discussion about life &amp; contribution of Pt. Vishnu Narayan Bhatkhande (Hindustani Music) / Vaggeyakara Annamacharya (Carnatic Music) in the field of Music <b>(Interdisciplinary Approach)</b></li> </ul> <p>1. History</p> <p>Students get exposed to the history of India and development / changes that occurred in Music and Culture of India.</p>	<p>Question – Answer</p> <p>Project work – To collect photographs and prepare a chart about creations and work done by legends</p>
JULY 2023	23	04	<p>3. Community Song – in Oriya language</p>	<p><b>SUGGESTED ACTIVITIES</b></p> <p>5) word by word recitation of the song by teacher followed by students</p> <p>6) Discussion on the meaning of the song</p> <p>7) Recitation of tune by teacher followed by students.</p> <p><b>PROJECTS</b></p> <p><b>(Interdisciplinary Approach)</b></p> <p>1. Social Science :</p> <ul style="list-style-type: none"> <li>• Students get exposed to the art &amp; culture of Orissa</li> <li>• Students are asked to prepare a chart depicting the historical monuments in the state of Orissa.</li> </ul>	<ul style="list-style-type: none"> <li>• Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>• Project Work – A. Students are asked to Prepare a chart containing brief information about population, education ratio, festivals, cousins, main crops, water reservoirs, freedom fighters etc. of Orissa</li> </ul>
		03	<p>4. Rajasthani Folk Song</p>	<ul style="list-style-type: none"> <li>• Discussion about Song covering the type of song, special occasion when the song is sung, aesthetics of the song etc.</li> </ul> <p><b>PROJECTS</b></p> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Language &amp; Literature : Students learn about the regional language and dialects.</li> <li>• Art &amp; Culture : Students are asked to collect pictures and information regarding different festivals, folk songs and folk dances of Rajasthan</li> </ul>	<p>Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm)</p>

AUGUST 2023	03	5. Patriotic song – In Hindi.	<ul style="list-style-type: none"> <li>• Word by word recitation of the song by teacher followed by students.</li> <li>• Recitation of the song by teacher followed by students</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Prepare chart / PPT depicting geographical diversity of India</li> <li>• Prepare a chart on origin of different Civilizations.</li> </ul>	1. Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm)
19	04	6. Theory: Brief Introduction of Classification of Musical Instruments.	<ul style="list-style-type: none"> <li>• Brief discussion about the production of sound</li> <li>• Discussion about tonal quality of the sound on the basis of material used in production of sound</li> <li>• Relation between different physical phenomenon like length, thickness, way to creating vibrations etc on the Sound</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>1. Physics :Chapter 13 “Sound” in class VIII Science Textbook may be better explained while teaching about simple basic musical terms like Production of Sound, Concepts of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) may be easily explained while teaching the shrutis &amp; swaras</p>	<p>Question – Answer about production of sound</p> <p>Preparation of a model to describe scientific principle about effect of thickness on frequency of sound</p>
SEPTEMBER 2023	23	02	<p>7. Community Song in any Language.</p> <ul style="list-style-type: none"> <li>• Discussion about lyrics and its meaning</li> <li>• Word by word recitation by teacher followed by students</li> <li>• Recitation of tune by teacher followed by students</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>IX) Civics :</p> <ul style="list-style-type: none"> <li>• Students are exposed to the values of unity in diversity. • Students get an idea about values of Secularism in our Constitution.</li> </ul>	<p>Vocal / Instrumental performance</p> <ul style="list-style-type: none"> <li>• Question – Answer about Values of Secularism as Contemplated in the constitution of India.</li> </ul>

		03	<p>8.Theory : Introduction of Raga Yaman in Hindustani Music / Kalyani in Carnatic Music Practical : AsargamGeet/ bandishMadhyala ya in Raga Yaman OR simple keerthanam in Raga Kalyani in Carnatic Music</p>	<ul style="list-style-type: none"> <li>• Discussion about structure of Raga and notes used in it.</li> <li>• A small bandish (Composition ) in Raga</li> <li>• Listening different types of famous Bhajans and light music song to make the concept clearer</li> </ul>	<p>Question – Answer about theoretical aspects of Raga</p> <ul style="list-style-type: none"> <li>• Vocal / Instrumental performance</li> <li>• Ability to recognize Raga from phrases of swaras during viva test (Practical Exam)</li> </ul>
		03	<p>9.Bhajan Vaishnav jantho</p>	<p>xiv) Discussion about the song and its meaning xv) Discussion about Human values xvi) Recitation of the song by teacher followed by the students <b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• VALUE EDUCATION : Students explore human values as described in the Bhajan</li> <li>• SOCIAL SCIENCE : Collect information about lives and deeds of various saints and leaders who have followed the values in their life and set examples for others.</li> </ul>	<p>Vocal / Instrumental Performance</p> <ul style="list-style-type: none"> <li>• Simple question – Answer about Raga Khamaj upon which the tune of the Bhajan based on etc.</li> </ul>
OCTOBER 2023	14	03	<p>10.Theory :Indian Notation System (Pt. Vishnu Narayan BhatkhandeNotati on System for Hindustani Music /SRGM NOTATION system in Carnatic Music</p>	<ul style="list-style-type: none"> <li>• Derive the need and importance of Notation System by discussion with students.</li> <li>• Discuss all the symbols used in Bhatkhande Music Notation System</li> </ul>	<p>Question – Answer about symbols of notation system.</p> <ul style="list-style-type: none"> <li>• Reading and writing of notations.</li> </ul>

		03	11. Theory & Practical: Introduction of Raga Brindavani Sarang/Malkauns/ Hindolam/ Madhyamavathi.	<ul style="list-style-type: none"> <li>• Discussion about structure of Raga and notes used in it.</li> <li>• A small bandish (Composition ) in Raga</li> <li>• Listening different types of famous Bhajans and light music song to make the concept clear.</li> </ul>	Question – Answer about theoretical aspects of Raga • Vocal / Instrumental performance • Ability to recognize Raga from phrases of Swaras.
		02	12. Community Song in Tamil	<p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Social Science :</li> <li>• Students may be exposed to the art &amp; culture of Tamilnadu</li> <li>• Students are asked to prepare a chart depicting the historical monuments in the state of Tamilnadu.</li> <li>• Students are asked to prepare to collect photographs of the freedom fighters of the state of Tamilnadu with brief information about their life.</li> </ul>	Introductory question – Answer about state of Tamilnadu and its cultural heritage. xiv) Word by word recitation of the song by teacher followed by students xv) Discussion of the meaning of the song xvi) Recitation of the tune of the song by teacher followed by students
		<b>TERM I EXAM</b>			
NOVEMBER 2023	26	04	13.Theory : Introduction of Teen taal I in addition to Taalas learnt in Class VI & Class VII OR Chappu talas (As per Carnatic Music)	<ul style="list-style-type: none"> <li>• Discussion about importance of Taal</li> <li>• Exercise for counting Matras of Taal Teental&amp;RupakOR Chappu tala (As per Carnatic Music) with clapping &amp; stamping</li> <li>• Recitation of Bols (syllables) of Teental and its usages</li> </ul>	8. Question – Answer about theoretical aspects of Tala 9. Skill of clapping and stamping in Tala 10. Recitation of Bols (Syllables of Tala)



		04	14..Practical : Recognizing Teental taal in addition to Teental, Rupak, Kehrva and Dadra played on Tabla OR ChappuTalam in addition to Adi Talam & Rupaka Talam  On Mridangam or jalra mobile application.	7. Lecture and Demonstration of playing Teental, Rupak, Kehrva and Dadra on Tabla.  OR  Chapputalam,  Adi Talam&RupakaTalam (As per Carnatic Music) on Mridangam (If teacher is not able to play Tabla / Mridangam, She/he may use recorded clips or jalra mobile application.)	Ability to recognize tala played on Tabla / Mridangam
DECEMBER 2023	12	03	15.Making of Tabla / Mridangam	7. Discussion about structure of Instrument 8. Science behind the production of sound from the Instrument <b>(Interdisciplinary Approach)</b> 1. Physics: Chapter 13 "Sound" in class VIII Science Textbook - Concept of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) may be easily explained while teaching the making of the instrument. 2. General Studies: Collection of Photographs of eminent artists related with said instruments and brief information of the artists in form of charts or scrap book.	5. Question – Answer about making of the instrument 6. Question – Answer about terms of Science like frequency, effect of the thickness, length and type of material on production of sound etc. 7. Drawing labelled diagram of the instruments.
		<b>WINTER BREAK</b>			

JANUARY 2024	21	04	<p>16. Folk song of the (List of paired state is on CBSE website ) EBSB Paired State Circular No. : Acad 33/2020 dated 14.05.2020, Annexure</p>	<p>5. Introductory question – Answer about EBSB paired state and its cultural heritage. 6. Word by word recitation of the song by teacher followed by students 7. Discussion of the meaning of the song 8. Recitation of the tune of the song by teacher followed by students.</p> <p><b>(Interdisciplinary Approach)</b> 1. Social Science :</p> <ul style="list-style-type: none"> <li>• Students are exposed to the art &amp; culture of EBSB Paired state</li> <li>• Students are asked to prepare a chart depicting the historical monuments located in EBSB Paired state</li> </ul>	<p>Vocal / Instrumental performance (Recitation of Composition with proper notes, tempo and in proper rhythm).</p> <p>Project Work - Students are asked to prepare a chart containing brief information about population, education ratio, festivals, cousins, main crops, water reservoirs etc. of the EBSB Paired State.</p>
		04	<p>17. Introduction to Electronic musical instruments and Musical Instrument Digital Interface(MIDI)</p>	<p>6. Lecture &amp; Demonstration <b>(Interdisciplinary Approach)</b> 5. IT: Students may be exposed to the world of latest technology.</p>	<p>Use of digital resources. Question-Answers Students may be asked to prepare Traditional and electronic version of music instruments.</p>

		03	18.Regional Folk Song / Folk Dance	<p>3. Discussion about Folk Song covering the type of folk song, special occasion when the song is sung, aesthetics of the song etc.</p> <p><b>(Interdisciplinary Approach)</b></p> <p>8. Language &amp; Literature: Students learn about the regional language and dialects.</p> <p>9. Social Science :</p> <p>As the folk song is reflection of the local culture and heritage; students learn it in a very interesting way and develop respect towards the folk culture as contemplated in the “Ek Bharat Shrestha Bharat” as well as “Bhasha Sangam” - ambitious initiatives of Government of India</p>	<p>Vocal/Instrumental performance Project Work - Collect information about different types of folk songs and folk dances of Rajasthan. Prepare Chart / PPT.</p>
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FEBRUARY 2024	22	02	<p>Theory:</p> <p>Brief note of ancient musical instrument Veena, Flute</p>	<p>6. Discussion about structure of the Instrument.</p> <p>7. Discussion about acoustics of the instrument (Interdisciplinary Approach)</p> <p>1. Physics: Chapter 13 "Sound" in class VIII Science Textbook - Concept of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) may be easily explained while teaching the making of the instrument.</p>	<p>6. Question – Answer about making of the instrument</p> <p>7. Question – Answer about terms of Science like frequency, effect of the thickness, length and type of material on production of sound etc. Drawing labelled diagram of the instruments.</p>
		01		<p><b>Project Work</b></p> <p>Collection of Photographs of eminent artists related with said instruments and brief information of the artists in the form of charts or scrap book.</p>	
		01	<p><b>REVISION OF ALL THE TOPICS &amp; PRACTICAL EXAMS</b> <b>(VOCAL / INSTRUMENTAL)</b></p>		
MARCH 2024	12		<p><b>ANNUAL EXAMINATION</b></p>		

6. As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
7. Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
8. Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.

## NAVODAYA VIDYALAYA SAMITI

**CLASS – VIII**

**SUBJECT: PHYSICAL EDUCATION**

Standing and Standard Instructions:

6. Morning Jogging/Warm Up Exercises/ Mass Drills /Aerobics/Yoga and Meditation
7. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
8. Inter House Competitions as per Vidyalaya Calendar of Activities
9. Holding Periodical Cross-Country Race/Walk.
10. Trekking and Hiking Activities at least once in a year
11. Showing Live Matches to Children
12. Martial Arts / Self Defence Skills through Resource Persons
13. Fit India Movement activity should be conducted as per schedule
14. Special day must be celebrated i.e., Yoga Day, National Sport Day
15. ICT to be a part of the pedagogy to make learning enjoyable and joyful

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)			
APRIL 2023	25	04	Jogging and warming up. Free hand exercises for Co-ordination. Fitness Assessment Test (to analyze their ability)  Yoga asana: (Suryanamaskara, Vrukshasana, Paadahasthasana, etc)	Selecting students to appropriate games and sports based on Fitness Assessment (battery) test analysis. Cricket Basketball Athletics: Basic skills of Jumps, Throws and ABC of running.	<ul style="list-style-type: none"> <li>•Human Body-Mental health &amp; Mental illness</li> <li>•Growth &amp; Development</li> <li>•Role of heredity</li> <li>•Emotional Development</li> <li>•Concern for Physical Appearance, Existing social values &amp; norms.</li> </ul>	English: The Great Stone Face-II Earnest meets the poet  Activity Name: Hide and seek	One student will act like Ernest and he will try to find the hidden students and call them the likeness of the Great Stone Face. At last all the students will be traced by Ernest

JULY 2023	23	04	<p>Jogging and warming up. Calisthenics for Co-ordination.</p> <p>Yoga asana: (Suryanamaskara, Naukasana, Bhujangasana etc)</p>	<p>Athletics: Different skills practice for jumps, throws and track events. Improved skills practice in the taken games.</p>	<ul style="list-style-type: none"> <li>•Target &amp; goal setting.</li> <li>•Identifying strategies to achieve it</li> <li>•Identifying own strength and weakness</li> <li>•Evaluating the opponent team and planning own team's strategy.</li> <li>•Measurements of cricket pitch and basketball court.</li> </ul>	<p>English: A visit to Cambridge Hawkins's advice for the disabled</p> <p>Activity Name: Three leg Race</p>	<p>Children to do a three- legged race without ending up flat on their face .</p>
AUGUST 2023	24	04	<p>Jogging and warming up. General warming up and co ordination exercises march past practice.</p> <p>(Yogasana: Suryanamaskara, Gomukhasana, Matsyaasana, Pranayama– Sheetal Pranayam, Kapalbhati Pranayam)</p>	<p>Practice of basic skills of Cricket (bowling) &amp;Basket ball. Jumps and throws related exercises.</p>	<p>Orientation to sports skills–for recreation &amp; competitions How to recreate through physical activities, recreational games such as badminton, table-tennis etc. Fundamental skills of any two major games as per the availability of facilities. Rules and regulations of Cricket and Basketball.</p>	<p>Mathematics : isualizing Solid Shapes</p> <p>Activity Name: ewing 3D shape Yogic Asana</p>	
SEPTEMBER 2023	26	05	<p>General conditioning Exercises and Group activities for co-ordination (aerobics). Yogasana: Suryanamaskara, Yogamudrasana, and Paschimotthanasana.</p>	<p>Volleyball &amp; Throw ball basics, Lead up activities for speed development in Athletics. Practice of skills and Techniques of the concerned game.</p>	<p>Agility -how to test our agility for fitness– pushup, bent knee sit- ups, shuttle run etc. Atmospheric Pollution- types &amp; effects. Rules and regulations of volleyball &amp; throw ball</p>	<p>Mathematics: Introduction to Graphs</p> <p>Activity Name: Cricket and Line graph</p>	

OCTOBER- NOVEMBER 2023	27	04	<p>General Fitness Exercises, Mobility exercises.</p> <p>Yoga- (Suryanamaskar, Makarasana &amp; Pavanamukth asanas.)</p>	<p>Improvised skills of volleyball and throwball.</p> <p>Athletics: Strength related activities for throws and jumps.</p>	<p>Children will be asked to play tug of war using different ropes made by different thin fibres.</p>	<p>Science : Synthetic Fibers and Plastics What is synthetic fibre.</p> <p>Activity Name: Tug of war</p>	<p>Y o g a - A s a n a s &amp; Kriyas .Flexibility &amp; Flexibility &amp; static contraction of muscles. Role of Meditation for improving the concentration. Qualities of healthy mind. mind.Measurements of Measurements of Volleyball &amp; throwball courts. Duties and responsibilities of o f f i c i a l s .</p>
DECEMBER- JANUARY 2024	45	08	<p>Coordination movements Gymnastics: Hand stand and rolls.</p> <p>Yogasana: (Suryanamaskara, and previous asanas)</p>	<p>Coordination movements Gymnastics: Hand standard &amp; rolls.</p> <p>Yogasana: (Suryanamaskara, and previous asanas.)</p>	<p>Children asked to watch the cricket match for visually challenged</p>	<p>Science: Sound</p> <p>Activity name: Importance of sound in cricket (For Visually disabled)</p>	<p>We &amp; Our Environment– Water, Hygiene &amp; Sanitation Importance of Water Conservation – Preventing water wastage at personal level, family level &amp; community level Seed banking – learning about indigenous seed varieties. Strategies of Strategies of volleyball &amp; throwball.</p>

FEB / MARCH 2024	3 5	0 7	<p>General Fitness exercises and practice of previous activities, Practice of different formations in hoops, Yogasana: Suryanamaskara, and previous Asanas. March Past Practice ,dumbells , Lazium and wands exercises</p>	<p>Practice/friendly matches.</p> <p>Athletics: Improvised techniques for start and finish.</p>	<p>Food &amp; Nutrition– Food practices, Food choices, globalization of food practices Fasting, nutritional anemia Genetically modified food – usefulness &amp; harm that these foods can cause. Leadership qualities. Safety &amp; security– safety from Animals &amp; animal bites Prevention &amp; treatment of snake bite, animal attacks, dog bites etc. First-aid – situations which require first aid Information about Hospitals &amp; PHCs Social health – Listening to others, doing negotiations, making decisions, being assertive, solving problems, being confident, caring for nature etc.</p>	<p>Science: Sound Noise and music</p> <p>Activity name: March Past</p>	<p>The class will be divided into groups of two.</p> <p>First group will be asked to observe the March Past for 5 days before Independence Day Day</p> <p>The second group will be asked to observe the March Past of Independence Day</p>
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NAVODAYA VIDYALAYA SAMITI

CLASS VIII

SUBJECT: SCIENCE

UNIT NO	NAME OF THE CHAPTER /UNIT	PERIODS
1	Crop Production And Management(Biology)	10
11	Force And Pressure(Physics)	10
5	Coal and Petroleum (Chemistry)	11
2	Microorganisms :Friend And Foe (Biology)	11
12	Friction(Physics)	10
7	Conservation Of Plants And Animals(Biology)	15
6	Combustion And Flame (Physics)	10
14	Chemical Effects Of Electric Current(Chemistry)	8
13	Sound (Physics)	12
9	Reproduction In Animals (Biology)	7
16	Light(Physics)	14
10	Reaching The Age Of Adolescence(Biology)	15
15	Some Natural Phenomena (Physics)	15
	<b>TOTAL</b>	<b>80Marks</b>
	<b>INTERNAL ASSESMENT</b>	<b>20 MARKS</b>
	<b>GRAND TOTAL</b>	<b>100 MARKS</b>

Month	No. of Days	No. of Periods	Unit number, Main Topics & Sub Topics to be covered	Sample Subject Enrichment Activities/Practical Activities may include Textual activities & extended learning projects	Sample Projects
April-2023	20	10	<b>1. Crop Production and Management: (BIOLOGY)</b> Agricultural Practices, Basic Principles of crop production, Preparation of soil, Sowing, Adding Manure and Fertilizers, Irrigation, Protection from weeds, Harvesting, Storage, Food from Animals	1. Study of symbiosis between touch - me - not plant and Rhizobium bacteria ( in leguminous plants) with specimen collection of touch me not plants 2. Selection of good quality seeds 3. Study of symbiotic association in lichens 4. Preparation of agricultural tools	1. Micro green projects 2. Field visit of a farm, nursery or a garden nearby and gather information about A) Importance of seed selection B) Methods of irrigation c) Weeding 3. Effect of manure and fertilizers on crop plants. Teacher can assign projects to individual or group
		10	<b>*11. Force and Pressure (PHYSICS):</b> Force a Push or a Pull, Forces are due to an interaction, Exploring forces, A force can change the State of Motion, Force can change shape of an object, Contact forces, Non-contact Forces, Pressure, Pressure exerted by liquids and gases, Atmospheric Pressure	Preparing a model to show electrostatic force and magnetic force ( like magnetic toy) to show attraction and repulsion	

July-2023	25	11	<b>5. Coal and Petroleum :</b> (Chemistry) Exhaust (fossil and In exhaustible Natural Resources, Coal, Petroleum, Natural Gas, Some Natural Resources are Limited	Seminar from a resource person with geology background	Get 5 outline maps of India and mark the places where the following are found; 1. coal 2. petroleum, 3. natural gas 4. petroleum refineries 5. Thermal power plants. Teacher can assign projects to individual or group
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			<b>Periodic Written Test-1(17-19 july-2023concept maps, quizzes , drawing numerical, discussions notebook correction</b>		
		11	<b>*2.Microorganisms: Friend and Foe (BIOLOGY):</b> Microorganisms, Where do Microorganisms live, Harmful microorganisms, Food Preservation, Nitrogen Fixation, Nitrogen cycle	1. Study of protozoa from permanent slide ( paramecium, euglena, Amoeba) 2 Study of fungi(yeast, & mushroom) 3.Study of Green alga from permanent slide 4. Observation of root nodules in leguminous plants	Art integration Drawing 5 examples of each 5 microbial groups on charts, writing their uses Teacher can assign projects to individual or group
August-2023	26	10	<b>12. Friction ( PHYSICS)</b> Force of Friction, Factors affecting Friction, Friction: A necessary Evil, Increasing and reducing Friction, Wheels reduce Friction, Fluid Friction	1.To measure the static friction on increasing the weight of the body 2.To study the increase or decrease in the frictional force a) Between two different surfaces with and without lubricant b). With same surfaces with and without lubricants 3. Static, sliding and rolling friction activities	

**Periodic Written Test-2(21-23 August-2023)**  
**concept maps, quizzes , drawing numerical, discussions notebook correction**

August-2023		15	<b>7. Conservation of Plants and Animals (BIOLOGY):</b> Deforestation and its causes, Consequences of Deforestation, Conservation of Forest and Wildlife, Biosphere Reserve, Flora and Fauna, Endemic Species, Wildlife Sanctuary, National Park, Red Data Book, Migration, Recycling of Paper, Reforestation	Visit to conservative area like parks, zoo, sanctuary etc	Map work to study location of National parks, sanctuaries, and biosphere reserves Teacher can assign projects to individual or group
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September-2023	23	10	<p><b>*6. Combustion and Flame (PHYSICS):</b> What is Combustion, How do we control fire, Types of Combustion, Flame, Structure of a Flame, Fuel Efficiency</p> <p>And Revision For Term-1 Exams</p>	<p>1.Avoid burning leaves or Plant wastes (harmful effects of fuel) and prepare compost – Mass project to be taken by all in the school</p>	<p>Survey of different fuels used in 100houses of your locality. Find out their cost per kg and prepare a tabular chart to show the comparison to procure them per every rupee.</p>
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October-2023	<b>TERM-1 EXAMS(3-14October-2023)</b>			
	<b>( PRACTICE OF CBT Questions)</b>			
17	5	<b>14. Chemical Effects of Electric Current(CHEMISTRY):</b> Do Liquids Conduct Electricity, Chemical Effects of Electric Current, Electroplating	Electrolysis of water Electroplating using different metals	Teacher can assign projects to individual or group
<b>Winter break 23-10-2023 to 15-11-2023</b>				

November-2023	15	3	<b>Continuation 14. Chemical Effects of Electric Current(CHEMISTRY)</b>	1.To find the time period of the pendulum		
		12	<b>13. Sound (Physics):</b> Sound is produced by a vibrating body, Sound produced by Humans, Sound needs a medium for propagation, We hear sound through our ears, Amplitude, Time Period and Frequency of Vibrations, Audible and Inaudible Sounds, Noise and Music, Noise Pollution	2. Visit to music room and find the name of vibrating part in each musical instrument Teacher can assign projects to individual or group		
December-2023	24	7	<b>9. Reproduction in Animals (Biology):</b> Modes of Reproduction, Sexual reproduction, Asexual Reproduction	Collection of life stages of silkworm ( like cocoons - depends on the availability	1.Budding in hydra 2.Binary fission in amoeba 3Metamorphosis in frog/ silk worm Teacher can assign projects to individual or group	
		<b>Periodic written test-3(7-9 December-2023)concept maps, quizzes , drawing numerical, discussions notebook correction</b>				
		14	<b>16. Light (Physics):</b> What makes things visible, Laws of Reflection, Regular and Diffused Reflection, Reflected light can be reflected again, Multiple images, Sunlight- white or coloured <b>Structure of Human Eye</b> -What is inside our eyes, Care of the eyes, Visually challenged persons can read and write, What is the Braille system	1.To verify laws of reflection 2. To observe the dispersion of light through a prism and draw the diagram	Model of periscope Model of multiple images, parallel mirror forms infinite images  Teacher can assign projects to individual or group	

	25	15	<b>10. Reaching the Age of Adolescence:</b> PART I Adolescence and Puberty, Changes at Puberty, Secondary Sexual Characters, Roles of hormones in initiating Reproductive Function, Reproductive phase of life in Humans. Sex determination How is sex of the baby determined, Hormones other than sex hormones, Role of hormone in completing the Life History of Insects and Frogs, Reproductive		1.Information gathering about AIDS, and HIV 2.Write an article about awareness of aids in society Teacher can assign projects to individual or group
		10	<b>Revision</b>		
<b>Periodic Written Test-4(Feb 1<sup>st</sup> to feb 3)</b>					
Febraury-2024	24	15	<b>15. Some Natural Phenomena (Physics):</b> Lightning, Charging by Rubbing, Types of Charges and their Interactions, Transfer of charge, The Story of Lightning, Lightning Safety, Earthquake  And Revision For Term-2		Collect Information about the earthquakes happened in India, within last 10 years Teacher can assign projects to individual or group
March-2024			Revision for Yearly Examinations Practice Test for complete syllabus to be conducted at the Vidyalaya Level <b>TERM II EXAMINATION &amp; 30% OF SIGNIFICANT CHAPTERS FROM TERM-1</b>		

Distribution of chapters:						
	PWT-1	PWT-2	TERM-1	PWT-3	PWT-4	TERM-2
<b>Chapter Nos</b>	1,11*,5	2*,12	1,11*,5,2*,12,7,6*	14,13,9	16,10	2*,11*,6*(Term-1) 14,13,9,16,10,15
<b>Biology</b>	1	1	2+1=3	1	1	1*+4=5
<b>Chemistry</b>	1	0	1	1	0	1+1*=2
<b>Physics</b>	1*	1	2+1*=3	1	1	2*+3+1=6
<b>TOTAL</b>	3	2	7	3	2	12+1=13

NAVODAYA VIDYALAYA SAMITI

CLASS-VIII

SUBJECT-SOCIAL SCIENCE

Chapter-wise Weightage

Chapter No	Title of the Chapter	Marks
	<b>History</b>	
Chapter 1	How, When & Where	5
Chapter 2	From Trade to Territory –The Company Establishes Power	6
Chapter 3	Ruling the Countryside	6
Chapter 4	Tribals, Dikus and Vision of a Golden Age	6
Chapter 5	When People Rebel 1857 & after	7
Chapter 6	Weavers, Iron Smelters & Factory Owners	6
Chapter 7	Civilising the Native, Educating the Nations	7
Chapter 8	Women, Caste & Reform	6
Chapter 9	The Making of National Movement 1870s-1947	7
Chapter 10	India After Independence	7
	<b>Geography</b>	
Chapter 1	Resources	6
Chapter 2	Land , Soil, Water,Natural Vegetation & Wildlife Resources	7



<b>Chapter 3</b>	Minerals & Power resources	<b>6</b>
<b>Chapter 4</b>	Agriculture	<b>5</b>
<b>Chapter 5</b>	Industries	<b>6</b>
<b>Chapter 6</b>	Human Resources	<b>6</b>
	<b>Social &amp; Political Life</b>	
<b>Chapter 1</b>	The Indian Constitution	<b>7</b>
<b>Chapter 2</b>	Understanding the Secularism	<b>7</b>
<b>Chapter 3</b>	Why Do We Need a Parliament	<b>6</b>
<b>Chapter 4</b>	Understanding Laws	<b>6</b>
<b>Chapter 5</b>	Judiciary	<b>6</b>
<b>Chapter 6</b>	Understanding Our criminal Justice System	<b>7</b>
<b>Chapter 7</b>	Understanding Marginalisation	<b>5</b>
<b>Chapter 8</b>	Confronting Marginalisation	<b>6</b>
<b>Chapter 9</b>	Public Facilities	<b>5</b>
<b>Chapter 10</b>	Law & Social Justice	<b>6</b>
	Total	<b>80+80 (Term I&amp;II)</b>

MONTH	NO. OF DAYS	NO. OF PERIOD	CHAPTER NAME	WEIGHTAGE	ACTIVITIES/PROJECTS/ PRACTICAL EXPERIMENTS TO BE HELD/ SPECIFIC ASSESSMENT TOOL(S)(SUGGESTED)
April	25	20	1, How, when and Where	5	Activity 1 map Skills
			2, From trade to Territory	6	
			The Company Establishes Power	7	
			3. The Indian Constitution	6	
July	25	20	4. Resources	6	Activity 2 Project Work
			5. Countryside	6	
			6. the Secularism	7	
			7. Land , Soil, Water ,Natural Vegetation & Wildlidfe Resources	7	
			<b>PWT 1</b>		
August	25	20	6. Tribals, Dikus	6	Activity 3 Quiz
			and Vision of a Golden Age	6	
			7. Why Do We Need a Parliament	6	
			8. Minerals & Power resources	6	
			<b>PWT 2</b>		
September	24	20	13.Agriculture	5	Activity 4 Survey
			14.Understanding Laws	6	
			15.When People Rebel 1857 & after Revision	7	
October 2023	9	6	<b>Term I Exam</b>		

			8. Judiciary	6	
November	10	7	5. Weavers, Iron Smelters & Factory Owners	6	
December	25	20	6. Understanding Our criminal Justice System 7. Civilising the Native, Educating the Nations 8. Women, Caste & reform	7	Activity Project Work /Quiz /Collage
				7	
			<b>PWT 3</b>	6	
January 2024	25	20	8. The Making of National Movement 1870s-1947 9. Understanding Marginalisation 10. Confronting Marginalisation 11. Industries	7	
			5		
			6		
February 2024	24	20	<b>PWT 4</b>		Activity Debate/Discussion
			5. Human Resources	6	
			6. Public Facilities	5	
			7. Law & Social Justice	6	
			8. India After Independence	7	
March 2024	25	12	<b>Revision &amp; Term II</b>		

**NAVODAYA VIDYALAYA SAMITI**

**CLASS : IX**

**SUBJECT : AUTOMOTIVE**

**SUBJECT CODE : 404**

Sections	Units	No. Of Hour and practical	Max marks
<b>PART A</b>	xv. Communication Skills - I	13	5
	xvi. Self-Management Skills –I	07	
	xvii. ICT Skills- I	13	
	xviii. Entrepreneurial Skills- I	10	5
	xix. Green Skills-I	07	
	<b>TOTAL</b>	<b>50</b>	<b>10</b>
<b>PART B</b>	(r) History and Evolution of Automobile	10	4
	(s) Various types of automobile	10	4
	(t) Major Systems and components of an automobile	27	12
	(u) Road Safety	15	6
	(v) Automobile and Environment	8	8
	(w) Introduction to maintenance	20	6
	<b>TOTAL</b>	<b>90</b>	<b>40</b>
<b>PART C</b>	Practical	80	50
<b>GRAND TOTAL</b>		<b>220</b>	<b>100</b>

**Note -The Practical should be taught during regular hours, since they are part of theory classes.**

MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Topics/Activities/Projects/P ractical Experiments to be held (Suggested)
APRIL	24	32	<p><b>Unit: Communication Skills-I</b>            Session 1: Introduction to Communication            Session 2: Verbal Communication            Session 3: Non-Verbal Communication            Session 4: Writing Skills: Parts of Speech            Session 5: Writing Skills: Sentences            Session 6: Pronunciation Basics            Session 7: Greetings and Introduction            Session 8: Talking about Self            Session 9: Asking Questions I            Session 10: Asking Questions II</p> <p><b>Unit : History and Evolution of Automobiles</b>            Session 1 Invention of Wheel            Session 2: Wheel Cart            Session 3: Invention of Automobiles            Session 4: Invention of Automobiles (Post World War II)</p>	
JULY	22	31	<p><b>Unit : Self-Management Skills</b>            Session 1: Introduction to Self-management            Session 2: Strength and Weakness Analysis            Session 3: Self-confidence            Session 4: Positive Thinking            Session 5: Personal Hygiene            Session 6: Grooming</p> <p><b>Unit: Various Types of Automobiles</b>            Session 1:Two Wheelers and Three Wheelers            Session 2: Passenger Vehicles and Commercial Vehicles            Session 3: Agricultural Vehicles            Session 4: Construction Equipment Vehicles            Session 5: Special Vehicles</p> <p><b>Unit : Major Systems &amp; Components of an Automobile</b>            Session 1:Chassis Frame and Auto Body</p>	t) Demonstration Of Engine and its components

			Session 2: Engine and its Components	
<b>PWT I –17th to 19thJULY</b>				
<b>AUGUST</b>	<b>23</b>	<b>37</b>	<p><b>Unit : Major Systems &amp; Components of an Automobile</b>            Session 3: Lubrication System            Session 4: Cooling System            Session 5: Fuel Supply System            Session 6: Transmission System            Session 7: Front and Rear Axle            Session 8: Steering System</p> <p><b>Unit : ICT Skills</b>            Session 1: Introduction to ICT            Session 2: ICT Tools: Smart phones and Tablets            Session 3: ICT Tools: Smart phones and Tablets — II            Session 4: Parts of Computer and Peripherals            Session 5: Basic Computer Operations Text</p>	<ul style="list-style-type: none"> <li>• Demonstration of Clutch System</li> <li>• Demonstration of Gear system</li> </ul>
<b>PWT II – 21st to 23<sup>rd</sup> AUGUST</b>				
<b>SEPTEMBER</b>	<b>23</b>	<b>30</b>	<p><b>Unit : Major Systems &amp; Components of an Automobile</b>            Session 9: Suspension System            Session 10: Wheel and Tyre            Session 11: Brake            Session 12: Electrical and Electronic System            Session 13: Air Conditioning System            Session 14: Active &amp; Passive Safety</p>	<ul style="list-style-type: none"> <li>• Demonstration of Front Axle</li> <li>• Demonstration of Rear Axle</li> <li>• Demonstration of Electrical and Electronic Systems</li> </ul>

<b>SEPTEMBER</b>	<b>23</b>	<b>30</b>	<p><b>Unit : ICT</b></p> <p>Session 6 : Performing Basic File Operations</p> <p>Session 7 : Communication and Networking — Basics of Internet</p> <p>Session 8 : Communication and Networking — Internet Browsing</p> <p>Session 9 : Communication and Networking — Introduction to E-Mail</p> <p>Session 10 : Communication and Networking — Creating an E-Mail Account</p> <p>Session 11: Communication and Networking — Writing an E-Mail</p> <p>Session 12 : Communication and Networking — Receiving and Replying to E-Mail</p>	
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<b>OCTOBER</b>	<b>16</b>	<b>6</b>	<p><b>Unit: Entrepreneurship Skills</b></p> <p>Session 1: What is Entrepreneurship?</p> <p>Session 2: Role of Entrepreneurship</p> <p>Session 3: Qualities of a Successful Entrepreneur</p> <p>Session 4: Distinguishing Characteristics of Entrepreneurship and Wage Employment.</p>	
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**TERM – 1 (03.10.2023 to 14.10.2023)**

<b>OCTOBER</b>	<b>OCTOBER (23.10.2023 to 15.11.2023) – AUTUMN BREAK</b>			
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<b>NOVEMBER</b>	<b>13</b>	<b>24</b>	<p><b>Unit: Entrepreneurship Skills</b></p> <p>Session 5: Types of Business Activities</p> <p>Session 6: Product, Service and Hybrid Businesses</p> <p>Session 7: Entrepreneurship Development Process</p> <p><b>Unit: Road Safety</b></p> <p>Session 1: Importance of Road Safety</p> <p>Session 2: Safe and Responsible Driving</p>	<p>u) Demonstration of Electrical and Electronic Systems</p>
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			Session 3: Road Signs	
<b>DECEMBER</b>	<b>25</b>	<b>30</b>	<b>Unit: Road Safety</b> Session 4: Driving Rules and Registration  Session 5: Driving License <b>Unit: Automobile and Environment</b>  Session 1: Air Pollution  Session 2: Auto Emissions and EU/ BS Standards  Session 3: PUC Certification <b>Unit: Green Skills</b> Session 1: Society and Environment  Session 2: Conserving Natural Resources  Session 3: Sustainable Development and Green Economy.	
<b>PWT III – 7th to 9th DECEMBER</b>				
<b>JANUARY</b>	<b>21</b>	<b>30</b>	<b>Unit: Introduction to Maintenance and servicing</b> Session-1: Importance to Vehicle Maintenance And Servicing  Session 2: Tips to Extend The Life of Vehicle  Session 3: Introduction to Vehicle Service Procedure  <b>REVISION</b>	
<b>JANUARY</b>	<b>JANUARY (13.1.2024 to 18.1.2024) – WINTER BREAK</b>			
<b>FEBRUARY</b>	<b>( Revision &amp; Completion of Internal Assessment)</b>			
<b>PWT IV – 1st to 3rd FEB</b>				
<b>MARCH</b>	<b>( Revision &amp; Completion of internal Assessment)</b>			
<b>TERM - 2 (14.03.2024 to 27.03.2024 )</b>				

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NAVODAYA VIDYALAYA SAMITI

CLASS: IX

SUBJECT: ART (VISUAL)

MONTH	NO. OF DAYS	NO. OF PERIODS	Main-Topics and Sub -Topics to be Covered	Medium / Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands On Activities Prescribed
APRIL 2023	22	4	<b>Contemporary Indian Art</b> Contemporary trends in Painting, sculpture, drawing, digital art, video art, installation art, land art etc.	Wood, stone, Plastic other available materials in the Vidyalaya	Installation projects may have done. It can be integrate with Maths, Science subjects.	Based on the activity it may be a project/ art Installation etc.
JULY 2023	25	4	<b>Video Film making</b> Preparation of script for making video on Ek Bharat Shrest Bharat pairing State. Videography/Cinematography Framing, Lighting, Zooming, Focus, White balance, Audio, B-roll.	Video Camera/Smart Phone, Tripod	Projects may integrate with Social Studies, History, and Language.	
AUGUST 2023	26	4	<b>Video Editing /Film Making (making video on Ek Bharath Shrest Bharath pairing State)</b> Learn the Software, Logging, First Assembly, Rough Cut, Fine Cut, Final Cut	Computer with video & audio editing software (Movie maker, audacity) /Smart Phone	Projects may integrate with Social Studies and Language preferably integrate with other Subject	Group work can be assigned. Students can prepare Script, do shooting, editing etc.

SEPTEMBER 2023	24	4	<p><b>Landscape design (Landscape architecture), Gardening</b> Planning, designing and managing of open spaces in the Vidyalyaya.</p> <p>mm) Unity and Balance nn) Lines and Paths oo) Focal Points 4. Transitions Power point presentation may be prepared.</p>	Stone, Cement, Wood, Waste Plastics and other materials available in the campus.	Group activity of Campus beautification Projects may have done. The project may integrate with Mathematics, Science, Social Studies and Language Subject. Can be collaborate with the pairing State.	
<p>October 2023 <b>Evaluation of Term-1</b></p>						
NOVEMBER 2023	30	4	<p><b>Architecture</b> History Indian Architecture Indus Valley civilization Hindu Temple Architecture Ajanta, Ellora, Elephanta Indo Islamic Architecture Architecture of the EBSB pairing State. Learn the software Google Sketch up</p>	Pencil/ Google Sketch up software	Group projects may be given. It can be integrate with Mathematics, Science, Social Studies and Language Subjects.	
DECEMBER 2023	25	4	<p><b>Traditional Art of own State and EBSB pairing State</b> History Tradition, Design, Drawing, Colour scheme, Materials used etc.</p>	Pencil/ Water clor/ Poster Colour	One work own state and one of the pairing State may have done. Projects may integrate with Social Studies, History and Language Subjects. ICT based Art Pedagogy can be used	

JANUARY 2023	25	4	<p><b>Folk Arts / Festivals of India</b> Study the local folk Art of the region. (EBSB pairing states art forms can be selected guidelines are given in (Ek bharaath Srest bharat)</p> <p>Various festivals i.e. Bihu, Pongal, Uttrayan, Makar Sankranti and others. These festivals have their own ways of traditional learning opportunities.</p>	<p>Various organic mediums, crafts, and techniques used for creating traditional arts and local crafts. Local materials wood blocks, threads, jute bags, soft stone, pop can be used</p>	<p>Projects may integrate with EBSB pairing states art forms can be selected guidelines are given in (Ek bharaath Srestbhar at)</p> <p>Indigenous Toys, Storytelling &amp; Illustrating subject story, poems etc. activity can be framed based on Art Integrated Pedagogy</p>	<p>One best art work can be Submit along with Art Portfolio based on Pared state Folk/ Traditional art and various Art achievements of the Individual with documentary evident. An A3 Size; Grawing book can be used for the Same</p>
FEBRUARY 2023	26	4	<p><b>Layout Design (Preparation of Portfolio)</b> Learn the software, Lines, Shapes, Colours</p> <p><b>Applied Art: Vector Graphic Editing &amp; Designing</b> Introduction to computer graphics and different applications. Basic knowledge of computer graphics and Typography. Learn Calligraphy in Hindi/English and Local Language.</p>	<p>Computer with software's like MS Word, Powerpoint, Indesign etc.</p>	<p>Preparation of Portfolio. Projects may integrate with Social Science, and Language Subjects.</p>	
MARCH 2023			<p>Submission of Portfolio</p>			

List of Ek Bharat Shrest Bharat pared states for AIL project (For Class IX & X) is given below the project can be well planned in the beginning of the academic year and executed in a Time bond manner with the team work of Subject teacher Art Teacher & Students. Students can collect research based topics other than the subject area.

Annexure – I PAIRING OF STATES AND UNION TERRITORIES FOR CBSE AE&AIL PROJECT WORK

The following engagement matrix has been adapted from EBSB programme:

- Jammu & Kashmir: Tamil Nadu

- West Bengal: Ladakh
- Punjab : Andhra Pradesh
- Himachal Pradesh : Kerala
- Uttarakhand : Karnataka
- Haryana : Telangana
- Rajasthan : Assam
- Gujarat : Chhattisgarh
- Maharashtra : Odisha
- Goa : Jharkhand
- Delhi : Sikkim
- Madhya Pradesh : Manipur & Nagaland
- Uttar Pradesh : Arunachal Pradesh & Meghalaya
- Bihar : Tripura & Mizoram
- Chandigarh : Dadra & Nagar Haveli
- Puducherry : Daman & Diu
- Lakshadweep : Andaman & Nicobar
- Arts Integrated Activity Suggested for classes 1 to 12th

(Select/ Fill Appropriate option) Class Art Activity Subject/s Topics (Fill) (Select) (fill) (fill) Role play Arts Exhibition  
Video /Film Making Photography Slideshow/  
PPTs

Paper Quilling/Papier Mache/ Beads/ Grains etc.

Designing through Photoshop / and other Apps Visit to Historical places / monuments and to make documentaries  
Sketching Sculpture /

Clay Modeling Dance Performance Creating Art Reservoir using waste material Jewellery Making Beautifying room/ space/  
building

Choreography Brochure/Flyer

Document Making Musical Presentation of any form Theatre/ Drama/ Nukkad Natak Culinary

Art Textile Designing Block Printing Painting Researching on

Art Forms Organizing Art Events Cartooning Murals Wood Carving Info  
graphic Making Talks/

Lectures on Art Any Other form not listed above Please Specify

## NAVODAYA VIDYALAYA SAMITI

CLASS-IX

SUBJECT: COMPUTER (BASIC AND FOUNDATION)

### Distribution of Marks and Periods Unit Wise

Unit No.	Unit Name	Marks	Periods	
			Theory	Practical
1.	Basics of Information Technology	15	17	05
2.	Cyber Safety	10	08	05
3.	Office tools	15	26	70
4.	Scratch/Python	10	15	30
5.	Lab exercises	50	-	-
	<b>Total</b>	<b>100</b>	<b>66</b>	<b>110</b>

Month.	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests /Formative Tests/Assignment
APRIL 2023	22	17 T+ 5 P	15 MARKS	<p><b>Unit 1: Basics of Information Technology</b></p> <ul style="list-style-type: none"> <li>✓ Computer Systems: characteristics of a computer, components of a computer system CPU, memory, storage devices and I/O devices</li> <li>✓ Memory: primary (RAM and ROM) and secondary memory.</li> <li>✓ Storage devices: hard disk, CD ROM, DVD, pen/flash drive, memory stick.</li> <li>✓ I/O devices: keyboard, mouse, monitor, printer, scanner, web camera.</li> <li>✓ Types of software: system software (operating system, device drivers), application software including mobile applications.</li> <li>✓ Computer networking: Type of networks: PAN, LAN, MAN, WAN, wired/wireless communication, Wi-Fi, Bluetooth, cloud computers (private/public).</li> <li>✓ Multimedia: images, audio, video, animation</li> </ul>	<p>Navigation of the file system using a mouse and keyboard.</p> <p>Explore computer parts available in Lab</p> <p>Explore and create list of software available in computer lab.</p> <p>Identifying types of networks and connecting to internet</p> <p>Browser settings for a secure connection</p>	<p>Quiz assessment of activities, notebook checking</p>

JULY 2023	13	8 T+5 P	10 MARKS	<p><b>Unit 2: Cyber-safety</b></p> <ul style="list-style-type: none"> <li>✓ Safely browsing the web and using social networks: identity protection, proper usage of passwords, privacy, confidentiality of information, cyber stalking, reporting cybercrimes</li> <li>✓ Safely accessing websites: viruses and malware , adware</li> </ul>	<p>Cyber security tips</p> <p>Tips for creating secure passwords</p> <p>Demonstration of strong passwords using various websites.</p> <p>Clearing data stored in browser applications</p>	<p>Quiz assessment of activities, notebook checking</p>
<b>PERIODIC TEST-01</b>						

<p>JULY / AUGUST 2023</p>	<p>25</p>	<p>5 T+20 P</p>	<p>15 MARKS</p>	<p><b>Unit3:Officetools</b></p> <ul style="list-style-type: none"> <li>✓ <b>Introduction to a word processor:</b> create and save a document.</li> <li>✓ Edit and format text: text style (B, I, U), font type, font size, text color, alignment of text.</li> <li>✓ Use Indian languages in documents.</li> <li>✓ Format paragraphs with line and/or paragraph spacing. Add headers and footers, numbering pages.</li> <li>✓ Grammar and spell check utilities, subscript and superscript, insert symbols.</li> <li>✓ Printing options in Word Processor: Print preview, Controlling printing, printing all pages, single and multiple pages.</li> <li>✓ Insert pictures, change the page setting, add bullets and numbering, borders and shading, and insert tables – insert/delete rows and columns, merge and split cells.</li> <li>✓ Use auto-format, track changes, review comments, use of drawing tools, shapes and mathematical symbols.</li> </ul>	<p>Word processing: create a text document</p> <p>Create a text document in an Indian language other than English</p> <p>Check spelling and grammar and apply the changes to the document.</p> <p>Demonstrate to use Synonyms and Thesaurus.</p> <p>Create a letter</p> <p>Create a report</p> <p>Create a greeting card.</p> <p>Create a poster</p>	<p>Assessment of lab activities, Practical test, notebook checking</p> <p>Assessment of lab activities, Practical test, notebook checking</p>
<p>PERIODIC TEST-02</p>						



				<p><b>Presentation tool:</b></p> <ul style="list-style-type: none"> <li>✓ Understand the concept of slide shows, basic elements of a slide and different types of slide layouts, create and save a presentation, and learn about the different views of a slide set normal view, slide sorter view and hand-outs.</li> </ul>	<p>Create a presentation.</p> <p>Create a presentation with animation.</p>	
AUGUST / SEPTEMBER 2023	31	10 T+ 21 P		<ul style="list-style-type: none"> <li>✓ Edit and format a slide: add titles, subtitles, text, background, and watermark, headers and footers, and slide numbers.</li> <li>✓ Insert pictures from files, create animations, add sound effects, and rehearse timings</li> </ul>	<p>Include existing images/ pictures in a presentation.</p> <p>Animate pictures and text with sound effects in a presentation</p>	<p>Assessment of lab activities, Practical test, notebook checking</p>
<b>MID TERM-1</b>						

OCTOBER / NOVEMBER 2023	18	5 T+ 13 P		<p><b>Spreadsheets:</b></p> <ul style="list-style-type: none"> <li>✓ Concept of a worksheet and a workbook, create and save a worksheet.</li> <li>✓ Working with a spreadsheet: enter numbers, text, date/time, series using auto fill; edit and format a worksheet including changing the color, size, font, alignment of text; insert and delete cells, rows and columns.</li> </ul>	Create a simple spreadsheet and perform the following operations: min, max, sum, and average.	Assessment of lab activities, Practical test, notebook checking
<b>PERIODIC TEST-03</b>						
DECEMBER 2023	22	06 T+16 P		<ul style="list-style-type: none"> <li>✓ Enter a formula using the operators (+, -, *, /), refer to cells, and print a worksheet.</li> <li>✓ Use simple statistical functions: SUM (), AVERAGE (), MAX (), MIN (), IF () (Without compound statements); embed charts of various types: line, pie, scatter, bar and area in a worksheet.</li> </ul>	Create different types of charts using a spreadsheet: line, bar, area and pie.	

JANUARY 2023	23	10 T+13 P	10 MARKS	<p><b>Unit 4: Scratch or Python</b></p> <p><b>Alternative 1: Educational programming language Scratch</b></p> <ul style="list-style-type: none"> <li>• Introduction to Scratch contd.</li> <li>• Drag and drop commands, creating simple scripts, repeating blocks of commands.</li> </ul> <p><b>Alternative 2: Python</b></p> <ul style="list-style-type: none"> <li>• Programming Basics : Algorithms and Flowcharts</li> <li>• Characteristics of a good program</li> </ul>	<p>Create simple stories with Scratch (involving at least two objects/characters)</p> <p>Create flowcharts for common algorithms</p>	<p>Practical assessment in Python IDLE/Pyroid / Scratch online platform/ or any other editor for Python or Scratch</p>
<b>PERIODIC TEST-04</b>						
FEBRUARY 2024	22	5 T+17 P		<p><b>Unit 4: Scratch or Python contd.</b></p> <p><b>Alternative 1: Scratch</b></p> <ul style="list-style-type: none"> <li>• Discuss x-y plane, create scripts to move the cat (Scratch mascot).</li> <li>• Create a script to draw diagrams using the pen feature.</li> </ul> <p><b>Alternative 2: Python</b></p> <ul style="list-style-type: none"> <li>• Introduction to Python</li> <li>• A simple "Hello World" program</li> <li>• Running a Python program</li> </ul>	<p>Write practical Scratch/Python programs.</p>	<p>Practical assessment in Python IDLE/Pyroid / Scratch online platform/ or any other editor for Python or Scratch</p>
<b>MARCH- ANNUAL EXAMINATION</b>						

**Suggested Books:**

- s) Computer Applications for Class IX, Sharad Tiwari, Darshna Rathore& Deepak Bhargava, Sultan Chand Publishers
- t) Computer Applications, Class 9, Shalini Bhatnagar, Viva Educations.

NAVODAYA VIDYALAYA SAMITI

CLASS: IX

SUBJECT: ENGLISH

Unit no.	Name of the Chapter/ Unit	Marks
Reading Comprehension	Conceptual understanding, decoding, analyzing, inferring, interpreting and vocabulary	20
Writing Skill & Grammar	Creative expression of an opinion, reasoning, justifying, illustrating, appropriacy of style and tone, using appropriate format and fluency, applying conventions, using integrated structures with accuracy and fluency	20
Language Through Literature	Recalling, reasoning, appreciating, applying literary conventions, illustrating and justifying etc. Extract relevant information, identifying the central theme and sub-theme, understanding the writer's message and writing fluently.	40
<b>Total</b>		<b>80</b>
Internal Assessment		20
<b>Grand Total</b>		<b>100</b>

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
April 2023	22	26	1.The Fun They Had [R] 2.The Lost Child [S/R] 1.The Road Not Taken [P] 2. Wind [P]	1.Exercises-tenses	The Fun They Had <i>Toy Based Pedagogy</i> 1.Debate – online Vs offline classes  The Lost Child <i>Story Based Pedagogy</i> 1.Mind map  The Road Not Taken <i>Art Integrated Pedagogy</i> 1.Making a PPT on the poem 2. Describing such a decision that had changed their course of life.  Wind <i>Art Integrated Pedagogy</i> 1.Wind-Picture description  Tenses Gap Filling- using tenses Assessment tools – Editing based on tenses

July 2023	22	26	<p>2. The Sound Of Music [R]</p> <p>3. Rain On The Roof [P]</p> <p>2. The Adventures Of Toto [S/R]</p> <p>3. The Little Girl [ R]</p>	<p>1.Editing based on modals</p> <p>2.Sentence re ordering</p> <p>3.Letter writing skill</p>	<p>The Sound Of Music <i>Toy Based Pedagogy</i></p> <p>1. Making of musical instrument from waste material.</p> <p>2. Collecting pictures of famous musicians and the musical instruments</p> <p>Rain on the roof- <i>Art Integrated Pedagogy</i></p> <p>1. Compose your own poem on rain/leaf/cloud etc</p> <p>The Adventure Of Toto <i>Art Integrated Pedagogy/Story Telling based/ Toy Based Pedagogy</i></p> <p>1. Perform the role of an ideal father.</p> <p>2. Speak about how your parents take care of you when you fall ill. Does it enhance your love and regard towards them?</p> <p>How do your parents take care of your grandparents? The Little Girl <i>Art Integrated Pedagogy</i></p> <p>1.Role Play</p> <p>2.Play the role of a Modal and tell about your usage.</p> <p>Integrated grammar exercises Editing based on modals, Sentence Reordering Assessment tools –speaking and listening skill Editing based on modals Framing MCQ based on the chapters</p>
<b>PWT-I /UT-1 17-07-2023 TO 19-07-2023</b>					
August	23		<p>4. A Truly Beautiful Mind[R]</p> <p>4. The Lake Isle On Innisfree [P]</p> <p>3. Iswaran the Storyteller</p>	<p>1.Modals-Editing based on modals ,</p> <p>1. Article, Speech or Debate based on visual or verbal input.</p> <p>2. Writing a Diary- with verbal inputs Clause: Noun Clauses, Adverb Clauses of</p>	<p>A Truly Beautiful Mind <i>Art Integrated Pedagogy</i> <i>Story Telling based Pedagogy-Science fiction</i></p> <p>1. Write a book review on any of the following books by Albert Einstein- The World As I See It/ The Time Machine</p> <p>The Lake Isle Of Innisfree- <i>Art Integrated Pedagogy-</i></p> <p>1.Paint a beautiful landscape.</p> <p>2.Search for beautiful places of India where you would like to spend your leisure time. Prepare a portfolio/ collage of those places.</p> <p>Iswaran the Storyteller <i>Story Telling Based Pedagogy-</i></p>

2023		26	[S/R]	condition and time, Relative clauses	<p>1. There are so many people around us who tell us different stories about haunted places in their locality. Do you believe such people? Do you enjoy listening to them? Narrate such an instance to your class.</p> <p>2. Debate about Ghost is figment of imagination or real 'Iswaran the Storyteller'.</p>
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**PWT/UT-II AUGUST 21-08-2023 TO 23-08-2023**

September 2023	24	28	<p>5. The Snake and The Mirror [R]</p> <p>5. A Legend Of The Northland [P]</p> <p>4. In The Kingdom of Fools [S/R]</p> <p>5. The Happy Prince[S/R]</p>	<p>1.Report for a school magazine</p> <p>2. Story Writing – picture or verbal inputs</p> <p>3.Reported Speech- Commands, Requests, Statements, Questions</p>	<p>The Snake and The Mirror <i>Toy based Pedagogy and Story Telling based Pedagogy-</i></p> <p>1. Activity- The snake and mirror –keep mirror in open area, how animals react if they see their image in mirror. They will make a story</p> <p>2. Framing MCQ type questions based on the chapter The Snake and The Mirror.</p> <p>A Legend Of The Northland <i>Story Telling Based Pedagogy/ Art Integrated Pedagogy</i></p> <p>1.Pictorial representation of the story in the poem.</p> <p>2. Charity is the greatest virtue. A person can help others even after death like we can donate our eyes, liver or any other body part for the service of mankind.. Collect information about the people (living or dead) of your society who did such charities.</p> <p>3.Reciting poems In The Kingdom Of Fools <i>Art Integrated Pedagogy/Story Telling based Pedagogy</i></p> <p>1.Making a Mind map 2.Role play 3. Make a chart on the rules of Reported Speech.</p> <p>The Happy Prince <i>Art Integrated Pedagogy/Story Telling based Pedagogy</i></p> <p>1.Making a Mind map 2. Write-up on doing good make us feel good. 3. Written Class Test</p>
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					4. Group Discussion on the prevalent issues Assessment test-Oral Test Debate and Discussions
October 2023	06	07	6.My Childhood 6.Weathering The Storm In Ersama	1, Story Writing 2. Reported speech- commands, statements, question, 3.Determiners	My Childhood <i>Art Integrated Pedagogy/Story Based Pedagogy</i> 1. Recount anecdotes from the scientist's life collect information about the contribution of Dr. APJ Abdul Kalam in the field of science.  2.Narrating biography of Great Personalities enlist virtue and work of great personalities <i>Weathering the storm in Ersama Art Integrated Pedagogy/Story Based Pedagogy</i> 1. Prepare a chart highlighting the dos and don'ts to be followed during the time of a disaster. 2. Group discussion on what steps can be taken by people/government to help the victims of disaster.
<b>TERM-I 03-10-2023 TO 14-10-2023</b>					
November 2023	12	14	7.Packing [R] 6.No Men Are Foreign[P] 7.The Last Leaf[S/R] 7.The Duck And The	1. Report for a school magazine 2. Story Writing – picture or verbal inputs	<i>Packing Story Telling Based Pedagogy –</i> 1. List the things you would carry with you while going out on a rainy day. 2. Prepare a first aid box with waste material. 3. Role play [group activity]  No Men Are Foreign <i>Art Integrated Pedagogy-</i> 1. Do you have any friend of different religion and culture amongst your friend circle? Find out the differences you notice in your culture and rituals. 2.Reciting poem and show the students whole world through computer, T.V  The Last Leaf <i>Story telling based/ Art Integrated Pedagogy</i> 1. Role Play/ Dramatization 2.Simulating real life situations 3. Paint a leaf for your class display

			Kangaroo[P]		<p>board and write motivational thought on it.</p> <p>4. Prepare a chart on the physical and emotional changes that occur in our body during adolescence for MI room of your school</p> <p><i>The Duck And The Kangaroo</i></p> <p><i>Art Integrated pedagogy/Story telling based</i></p> <p>1.Reciting poem 2.Write a story of the poem Assessment tools of Listening and speaking skills</p>
December 2023	22	26	<p>8. Reach For The Top[R]</p> <p>8. On Killing a Tree[P]</p> <p>8. A House Is Not a Home[S/R]</p> <p>9. The Accidental Tourist[S/R]</p>	1.Descriptive Paragraph writing	<p>Reach For The Top-</p> <p><i>Art Integrated Pedagogy/ Story Telling Based/Sports Integrated Pedagogy</i></p> <p>1.Using newspapers clipping as a resource for showing Success stories</p> <p>2. On Killing A Tree <i>Art Integrated Pedagogy</i> 1.Recitation, 2.Write poems on trees and their importance</p> <p>3.Exhibition of write ups, articles essays and poems based on environment preservation A House Is Not A Home</p> <p><i>Art Integrated Pedagogy/ Story Telling Based</i></p> <p>1.A house is not a home- showing/ drawing cartoons /pictures/sketches 2. Write a note on pet care. Accidental Tourist[S/R]</p> <p><i>Story Telling Pedagogy</i> 1. Narrate an incident similar to the writer in the story Accidental tourist.</p>
<b>PWT/UT-III 07-12-2023 TO 09-12-2023</b>					
				1.Report for a	<p>The Bond Of Love-</p> <p><i>Story Telling Based/ Art Integrated Pedagogy</i></p> <p>1. Animals also feel the pleasure of love and the pain of separation. Make a presentation by giving examples from your own experience.</p>



January 2024	22	26	9.The Bond Of Love 9.The Snake Trying[P] 10.Kathmandu [R]	school magazine 2.Story Writing and Picture description on visual or verbal inputs	2. Narrate stories and anecdotes of affection and attachment between the animals and human beings. The Snake Trying-Toy based 1. Make models of snakes 2. Collect information about different kinds of snakes in the world. Write about them in your notebook. Kathmandu- <i>Art Integrated Pedagogy</i>  1. What is Nepal famous for in the world? Write and learn any ten teachings of Lord Buddha.  2.Kathmandu-Picture description and collection of information about one place
February 2024	24	28	11.If I were you [R] 10. The Beggar [S/R] 10. A Slumber Did My Spirit Seal [P]	1. Article writing 2. Diary writing 3. Story writing 4. Integrated Exercises-Gap filling, Editing  5. Transformation exercises	If I were you <i>Art Integrated/Story Telling Based</i>  1. Education is the weapon to change the society. Give speech on the Importance Of Education  2. Whom do you consider your ideal? Enact like him /her for a whole day?  3. Make a greeting card for the soldiers who sacrificed their lives.  4. Whose role would you like to perform if you get a chance? 1. Role play A slumber did my spirit seal Listening skill and enhance speaking skill Assessment tools Integrated grammar practice -Listening skill and enhance speaking skill
<b>PWT 4/UT- IV 01-02-2024 TO 03-02-2024</b>					
March 2024			Revision		
<b>TERM END</b> <b>14-03-2024 TO 27-03-2024</b>					

**Note:**

Relevant unit from workbook may be taken up.

Internal Assessment as per CBSE guidelines.

Any changes in the syllabus, if announced by CBSE during the academic year 2023-24 has to be incorporated in the split up syllabus by the concerned Teacher and Principal accordingly.

Lesson plans must be Inclusive, Experiential and Competency Based as per NEP 2020, CBSE Guidelines and NVS norms incorporating the 21st century skills, structured on the basis of Universal Design for Learning (UDL).

Refer CBSE Teacher's Manual for Pre-reading and Post- reading activities.

Conduct ESL/ASL activities based on the activities mentioned and maintain record of it for IA

## नवोदय विद्यालय समिति

- प्रश्नपत्र दो खंडों 'अ' और 'ब' में विभक्त होगा।
- खंड 'अ' में 45 वस्तुपरक प्रश्न पूछे जायेंगे, जिनमें से केवल 40 प्रश्नों के ही उत्तर देने होंगे।
- खंड 'ब' में वर्णनात्मक प्रश्न पूछे जायेंगे। प्रश्नों में उचित आंतरिक विकल्प दिए जायेंगे।
- भारांक- 80 (वार्षिक परीक्षा) + 20 (आंतरिक परीक्षा)

निर्धारित समय- 3 घंटे

भारांक-80

कक्षा-9

विषय हिन्दी 'ब'

विषय कोड-085

परीक्षा भार विभाजन		
	विषयवस्तु	भार
	<b>खंड अ (वस्तुपरक प्रश्न)</b>	<b>40</b>
	<b>अपठित गद्यांश</b>	<b>10</b>
1	अ दो अपठित गद्यांश (लगभग 200 शब्दों के) बिना किसी विकल्प के (1×5=5)+(1×5=5) (दोनों गद्यांशों में एक अंकीय पाँच-पाँच प्रश्न पूछे जाएँगे)	10
	<b>व्यावहारिक व्याकरण के आधार पर बहुविकल्पात्मक प्रश्न (1 अंक×16 प्रश्न)</b> <b>कुल 21 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।</b>	<b>16</b>
	1 शब्द और पद (2 अंक) (बिना किसी विकल्प के) (2 में से 2 प्रश्न)	02
	2 अनुस्वार (1 अंक) अनुनासिक (1 अंक) (3 में से 2 प्रश्न)	02
2	3 उपसर्ग (2 अंक) प्रत्यय (2 अंक) (5 में से 4 प्रश्न)	04
	4 स्वर संधि (3 अंक) (4 में से 3 प्रश्न)	03
	5 विराम-चिह्न (3 अंक) (4 में से 3 प्रश्न)	03
	6 अर्थ की दृष्टि से वाक्य भेद (2 अंक) (3 में से 2 प्रश्न)	02
	<b>पाठ्यपुस्तक स्पर्श भाग 1</b>	<b>14</b>
	<b>काव्य खंड</b>	<b>7</b>

	पठित पद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न (1×5=5)	5
	स्पर्श भाग 1 से निर्धारित कविताओं के आधार पर एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1×2=2)	2
	<b>गद्य खंड</b>	<b>7</b>
3	पठित गद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न। (1×5=5)	5
	स्पर्श भाग 1 से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1×2=2)	2
		<b>40</b>
<b>खंड ब (वर्णनात्मक प्रश्न)</b>		
<b>पाठ्यपुस्तक स्पर्श भाग 1</b>		<b>12</b>
4	1 स्पर्श गद्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। (3 अंक× 2 प्रश्न)(लगभग 60 शब्द)	06
	2 स्पर्श काव्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। (3 अंक× 2 प्रश्न)(लगभग 60 शब्द)	06
<b>पूरक पाठ्यपुस्तक संचयन भाग 1</b>		<b>06</b>
पूरक पाठ्यपुस्तक संचयन के निर्धारित पाठों से तीन में से दो प्रश्न पूछे जाएँगे जिनका उत्तर लगभग 60 शब्दों में देना होगा।		06
<b>लेखन</b>		<b>22</b>
5	1 संकेत बिंदुओं पर आधारित समसामयिक एवं व्यावहारिक जीवन से जुड़े किन्हीं तीन विषयों में से एक विषय पर लगभग 120 शब्दों में अनुच्छेद लेखन। (अंक× 1 प्रश्न)(विकल्प सहित)	06
	2 अभिव्यक्ति की क्षमता पर केंद्रित व्यावहारिक विषयों में से किसी एक विषय पर लगभग 120 शब्दों में अनौपचारिक पत्र। (6 अंक× 1 प्रश्न)	06
	3 चित्र वर्णन- चित्र में दिखाई दे रहे दृश्य/घटना का कल्पनाशक्ति से लगभग 100 शब्दों में वर्णन। (विचारों का वर्णन स्पष्ट रूप से चित्र से ही सम्बद्ध होना चाहिए) (बिना किसी विकल्प के)	05
	4 दी गई परिस्थितियों के आधार पर संवाद लेखन लगभग 100 शब्दों में। (विकल्प सहित)	05
<b>कुल</b>		<b>80</b>
<b>आंतरिक मूल्यांकन</b>		<b>अंक 20</b>

	अ	सामयिक आकलन : लिखित परीक्षा में से उत्तम अंक लिए जाएंगे	5	
	ब	बहुविध आकलन : प्रश्नोत्तरी, भाषण, वाद-विवाद	5	
	स	पोर्टफोलियो : छात्र की विषयांतर्गत उपलब्धि	5	
	द	श्रवण एवं वाचन : मौखिक परीक्षा	5	
		कुल		100

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/टर्म1/पुनरावृत्ति/वार्षिक परीक्षा
अप्रैल 2023	25	22	1 दुःख का अधिकार-यशपाल (गद्य) 2 पद - रैदास (पद्य) 3 गिल्लू - महादेवी वर्मा (संचयन) 4 अनौपचारिक पत्र लेखन <b>व्याकरण और रचनात्मक लेखन</b> -अनुस्वार, अनुनासिक -अपठित गद्यांश	1 भित्ति पत्रिका का निर्माण 2 वाद-विवाद प्रतियोगिता विषय-पोशाक एवं व्यक्तित्व। 3 स्वागत भाषण का अभ्यास।	

जुलाई 2023	26	25	1. एवरेस्ट मेरी शिखर यात्रा -बचेंद्रीपाल (गद्य) <b>व्याकरण और रचनात्मक लेखन</b> - अनुच्छेद लेखन - उपसर्ग, प्रत्यय	1. पीटी उषा, आरती साहा, किरण बेदी, कल्पना चावला का संक्षिप्त परिचय। 2. संस्कृत एवं उर्दू के उपसर्गों से बनने वाले शब्दों का संचयन।	आवधिक परीक्षा-1
अगस्त 2023	27	26	1. तुम कब जाओगे अतिथि- शरद जोशी (गद्य), 2. रहीम के दोहे -रहीम (पद्य) 3. स्मृति - श्री राम शर्मा (संचयन) <b>व्याकरण और रचनात्मक लेखन</b> - चित्र वर्णन - संवाद लेखन	1. अतिथि देवों भवः सूक्ति की व्याख्या : आधुनिक परिप्रेक्ष्य में। 2. कक्षा में कोई कहानी सुनाइए या किसी घटना का वर्णन कीजिए।	आवधिक परीक्षा-2
सितम्बर 2023	26	23	1. गीत-अगीत -रामधारी सिंह दिनकर (पद्य) <b>व्याकरण और रचनात्मक लेखन</b> -अनौपचारिक पत्र लेखन -विराम चिह्न -शब्द और पद	1. सुलेखन प्रतियोगिता 2. कवि सम्मेलन	
अक्टूबर 2023	17	6	<b>बहुविध आकलन : प्रश्नोत्तरी, भाषण, वाद-विवाद, रचनात्मक लेखन, सस्वर वाचन (इनमें से कोई एक करें)</b>	-भारत के प्रमुख वैज्ञानिकों का उनके योगदान के साथ संक्षिप्त परिचय दीजिए।	सत्रांत परीक्षा-1
<b>द्वितीय सत्र</b>					
नवम्बर 2023	12	12	1. वैज्ञानिक चेतना के वाहकः चन्द्रशेखर वेंकटरमन् - धीरंजन मालवे (गद्य) 2. अग्निपथ -हरिवंश राय बच्चन (पद्य)	-लघु कथा लेखन/ कविता लेखन	

दिसम्बर 2023	26	25	3 कल्लू कुम्हार की उनाकोटी - विक्रम सिंह (संचयन) <b>व्याकरण और रचनात्मक लेखन</b> -स्वर संधि -अर्थ की दृष्टि से वाक्य भेद	- विद्यार्थियों के अनुभवों से संबंधित विषय पर सामूहिक चर्चा करें।	आवधिक परीक्षा-3
जनवरी 2024	20	20	1. नए इलाके में, खुशबू रचते हैं हाथ-अरुण कमल (पद्य) 2 मेरा छोटा-सा निजी पुस्तकालय - धर्मवीर भारती	1. 4-5 देशभक्ति गीतों का संकलन करके कंठस्थ करें। 2. बाल मजदूरी से संबंधित सांवैधानिक नियमों पर सामूहिक चर्चा करें।	
फरवरी 2024	25	25	-शुक्र तारे के समान - स्वामी आनंद (गद्य) <b>आंतरिक मूल्यांकन में</b> पोर्टफोलियो  पुनरावर्तन		आवधिक परीक्षा-4
मार्च 2024	26	11		पुनरावर्तन  वार्षिक परीक्षा	

**निर्धारित पाठ्य / पूरक पुस्तकें :- एन.सी.ई.आर.टी द्वारा प्रकाशित**

- स्पर्श भाग - 1 (एन.सी.ई.आर.टी द्वारा प्रकाशित नवीनतम संस्करण)
- संचयन भाग - 1 (एन.सी.ई.आर.टी द्वारा प्रकाशित नवीनतम संस्करण)

**नोट :- निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे।**

स्पर्श भाग 1	m) धर्म की आड़ (पूरा पाठ) n) आदमीनामा (पूरा पाठ) o) एक फूल की चाह (पूरा पाठ)
संचयन भाग 1	p) हामिद खां (पूरा पाठ) q) दिये जल उठे (पूरा पाठ)

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## नवोदय विद्यालय समिति

\*सम्पूर्ण प्रश्न पत्र दो खंडों 'अ' और 'ब' में विभाजित होगा।

\*खंड 'अ' में 49 वस्तुपरक प्रश्न पूछे जाएंगे, जिनमें से 40 प्रश्न करने अनिवार्य हैं।

\*खंड 'ब' में वर्णनात्मक प्रश्न पूछे जाएंगे।

\*प्रश्नों में उचित आंतरिक विकल्प दिए जाएंगे।

**कक्षा-9**  
**कोड- 002**

**विषय-हिंदी 'अ'**

**विषय**

अवधि- 3 घंटे

पूर्णांक- 80

वार्षिक परीक्षा हेतु अंक भार विभाजन			
खंड 'अ' ( वस्तुनिष्ठ प्रश्न)			
क्रम संख्या	विषयवस्तु	उपभार	कुल भार
1	अपठितांश		10
	क अपठित गद्यांश [विकल्प रहित] पाँच बहुविकल्पी प्रश्न 1 x 5=5	5	
	ख अपठित काव्यांश [विकल्प सहित] पाँच बहुविकल्पी प्रश्न 1 x 5=5	5	
	व्याकरण के लिए निर्धारित विषयों पर विषयवस्तु का बोध, भाषिक बिन्दु संरचना आदि पर बहुविकल्पीय प्रश्न (कुल 20 में से कोई 16 प्रश्न)		16
	व्याकरण		
1	शब्द-निर्माण उपसर्ग -2 अंक, प्रत्यय-2 अंक (5 में से कोई 4 प्रश्न) समास-4 अंक (5 में से कोई 4 प्रश्न)	8	
2	अर्थ की दृष्टि से वाक्य-भेद 4 अंक (5 में से 4 प्रश्न)	4	
3	अलंकार- 4 अंक (5 में से 4 प्रश्न) शब्दालंकार: अनुप्रास यमक	4	



	अर्थालंकार: उपमा, रूपक		
पाठ्यपुस्तक क्षितिज भाग-1			
क	गद्य-खंड 1. क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर विषयवस्तु, शीर्षक चयन, ज्ञान, अवबोध और अभिव्यक्ति परक एक अंकीय पांच बहुविकल्पी प्रश्न 1 x 5=5	5	14
	2. क्षितिज से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमता एवं ज्ञानभिव्यक्तिपरक एक अंकीय दो बहुविकल्पी प्रश्न 1 x 2=2	2	
ख	काव्य-खंड		
	1. क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर एक अंकीय पांच बहुविकल्पी प्रश्न 1 x 5=5	5	
	2. क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्य- बोध परखने हेतु एक अंकीय दो बहुविकल्पी प्रश्न 1 x 2=2	2	
खंड-ब (वर्णनात्मकप्रश्न)			
पाठ्यपुस्तक क्षितिज भाग-1 एवं पूरक पाठ्यपुस्तक कृतिका भाग-1			
क	गद्य-खंड		20
	क्षितिज से निर्धारित पाठों में से विषयवस्तु का ज्ञान, अवबोध, अभिव्यक्ति आदि परक तीन प्रश्न (विकल्प सहित) शब्द सीमा 25-30 (4 में से कोई 3 प्रश्न) 2 x 3=6	6	
ख	काव्य-खंड		
	क्षितिज से निर्धारित कविताओं के आधार विद्यार्थियों का काव्य-बोध परखने हेतु तीन प्रश्न (विकल्प सहित) शब्द सीमा 25-30 (4 में से कोई 3 प्रश्न) 2 x 3=6	6	
ग	पूरक पाठ्यपुस्तक कृतिका भाग-1		
	कृतिका निर्धारित पाठों आधारित दो प्रश्न शब्द सीमा 50-60 शब्द (3 में से कोई 2 प्रश्न)	8	

लेखन			
क	विभिन्न विषयों और संदर्भ पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिन्दु आधारित समसामयिक एवं व्यवहारिक जीवन से संबंधित विषय पर लगभग 120 शब्दों में एक अनुच्छेद। (3 में से कोई 1)	6	20
ख	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक एवं अनौपचारिक विषय पर लगभग 100 शब्दों में पत्र (विकल्प सहित) (5×1-5)	5	
ग	दिए गए विषय/शीर्षक के आधार पर रचनात्मक सोच के साथ लगभग 100 शब्दों में लघुकथा लेखन (5×1-5)  अथवा विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन।	5	
घ	दी गई परिस्थितियों के आधार पर लगभग 80 शब्दों में संवाद-लेखन (4×1=4)  अथवा व्यावहारिक जीवन से संबंधित विषयों पर आधारित लगभग 80 शब्दों में सूचना-लेखन	4	
कुल योग			80
आंतरिक मूल्यांकन			20
सामयिक आकलन		5	
पोर्टफोलियो		5	
बहुविध आकलन		5	
विषय समृद्धि क्रियाकलाप		5	
समेकित योग			100

नवोदय विद्यालय समिति

कक्षा-9

विषय-हिंदी 'अ'

माह	कार्य दिवस	काळांश	विषयवस्तु /पाठ का नाम	परियोजना कार्य /क्रियाकलाप
अप्रैल 2023	21	26	क्षितिज भाग-1 दो बैलों की कथा (कहानी)- (मुंशी प्रेमचंद) ल्हासा की ओर- राहुल सांकृत्यायन कबीर की साखियों (काव्य) सबद- कबीर व्याकरण- शब्द निर्माण-उपसर्ग , प्रत्यय अपठित गद्यांश	कक्षा में दो बैलों की कथा के आधार पर सद्गुणों पर परिचर्चा व लेखन  साखियां-संग्रह, कबीर के समाज सुधारों का साखियों के आधार पर वर्णन
जुलाई 2023	26	32	कृतिका भाग-1 इस जल प्रलय में-फणीश्वरनाथ रेणु व्याकरण- औपचारिक एवं अनौपचारिक पत्र-लेखन अलंकार : परिचय शब्दालंकार- अनुप्रास, यमक अपठित काव्यांश	विद्यार्थियों द्वारा स्वयात्रा का रोचक वर्णन
अगस्त 2023	26	32S	क्षितिज भाग-1 उपभोक्तावादी संस्कृति -श्यामा चरण दुबे वाख (कविता)- ललद्यद कृतिका भाग-1 मेरे संग की औरतें –मृदुला गर्ग व्याकरण – अर्थालंकार- उपमा, रूपक	अलंकारों का वर्गीकरण करते हुए चार्ट बनाइये
आवधिक परीक्षा-1				
सितंबर 2023	23	26	क्षितिज भाग-1 सवैये-रसखान (कविता) कैदी और कोकिला –माखनलाल चतुर्वेदी (कविता) लघुकथा लेखन, औपचारिक ई-मेल लेखन पुनरावृत्ति	आधुनिक कैदी एवं स्वतंत्रता संग्राम के समय के कैदियों के वातावरण के मध्य अंतर पर परिचर्चा

आवधिक परीक्षा-2				
अक्टूबर 2023	15	20	क्षितिज भाग-1 सांवल्ले सपनो की याद -जाबिर हुसैन *नाना साहब की पुत्री देवी मैना को भस्म कर दिया गया -चपला देवी* प्रेमचंद के फटे जूते (व्यंग्य) -हरिशंकर परसाई अनुच्छेद-लेखन	'नाना साहब' पर अनुच्छेद-लेखन
द्वितीय-सत्र				
नवंबर 2023	18	24	क्षितिज भाग-1 ग्रामश्री (कविता) -सुमित्रानंदन पंत *चंद्रगहना से लौटती बेर -केदारनाथ अग्रवाल* मेरे बचपन के दिन -महादेवी वर्मा व्याकरण - वाक्य: सामान्य परिचय, वाक्य भेद- अर्थ के आधार पर	वाक्य-भेद का चार्ट 'बचपन के दिन' पर विचार प्रकट
अर्द्धवार्षिक परीक्षा				
दिसंबर 2023	20	25	क्षितिज भाग-1 मेघ आये-सर्वेश्वरदयाल सक्सेना (कविता) *यमराज की दिशा- चंद्रकांत देवताल* कृतिका भाग-1 रीढ़ की हड्डी -जगदीशचंद्रमाथुर व्याकरण - समास	प्राकृतिक सौंदर्य वर्णन प्रकृति-पुरुष सम्बन्ध पर परिचर्चा शब्द निर्माण के अंतर्गत समास वर्गीकरण का चार्ट
जनवरी 2024	15	20	क्षितिज भाग-1 बच्चे काम पर जा रहे हैं -राजेश जोशी (कविता) कृतिका भाग-1 *माटी वाली-विद्यासागर नौटियाल*	'बाल श्रम एक अपराध है' इस विषय पर संवैधानिक नियमों का संकलन का संकलन तैयार करें
आवधिक परीक्षा-3				
फरवरी 2024	25	30	क्षितिज भाग-1 एक कुत्ता और एक मैना (हजारी प्रसाद द्विवेदी)* कृतिका भाग-1 * किस तरह आखिरकार मैं हिन्दी में आया -शमशेर बहादुर सिंह*	कक्षा संवाद

		संवाद-लेखन सूचना-लेखन	
आवधिक परीक्षा-4			
मार्च 2024		सम्पूर्ण पाठ्यक्रम पुनरावृत्ति पुनरावृत्ति विद्यार्थियों की आवश्यकतानुसार	
वार्षिक परीक्षा			

निर्धारित पाठ्यपुस्तक / पूरक पुस्तकें:- एन.सी.ई.आर. टी. द्वारा प्रकाशित

- क्षितिज भाग 1 (एनसीईआरटी द्वारा प्रकाशित)
- कृतिका भाग 1 (एनसीईआरटी द्वारा प्रकाशित)

टिप्पणी – ( \* )से चिह्नित अध्याय 'केन्द्रीय माध्यमिक शिक्षा बोर्ड' के द्वारा सत्र 2022-23 के लिए हटा दिए गए थे। नए सत्र में भी बोर्ड द्वारा किया गया संसोधन ही मान्य होगा ।

NAVODAYA VIDYALAYA SAMITI

CLASS: IX

SUBJECT: MATHEMATICS

Unit No	Name of The Chapter/ unit	Periods	Marks
I	NUMBER SYSTEMS	18	10
II	ALGEBRA	42	20
III	COORDINATE GEOMETRY	7	04
IV	GEOMETRY	74	27
V	MENSURATION	22	13
VI	STATISTICS & PROBABILITY	15	06
	Total	178	80
	<b>Internal Assessment ----- (20Marks)</b>		20
	<b>Pen Paper Test and Multiple Assessment----- (05 M+ 05M)</b>		
	<b>Portfolio----- (05 Marks)</b>		
	<b>Lab Practical (Lab Activities to be done from the prescribed books--- ----- (05 Marks)</b>		
	Grand Total		100

MONTH	NO OF DAYS	NO.OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
APRIL 2023	20	18	10	<b>UNIT – I: NUMBER SYSTEMS</b> <b>REAL NUMBERS</b> 3) Review of representation of natural numbers, integers, and rational numbers on the number line. Rational numbers as recurring/ terminating decimals. Operations on real numbers. 4) Examples of non-recurring / non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as $\sqrt{2}, \sqrt{3}$ and their representation on the number line. Explaining that every real number is represented by a unique point on the number line and conversely, viz. every point on the number line represents a unique real number. 5) Definition of $n^{\text{th}}$ root of a real number. 6) Rationalization (with precise meaning) of real numbers of the type $\frac{1}{a+b\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$ (and their combinations) where x and y are natural number and a and b are integers. 7) Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws.)	<b>Activity -1</b> To construct a square root spiral.  <b>Activity-2</b> To represent some irrational numbers on the number line.	
		05	13 (For full Mensuration Unit)	<b>UNIT – V: MENSURATION</b> <b>AREAS (Heron’s Formula)</b> Area of a triangle using Heron's formula (without proof)		
Summer Break (01.05.2023 to 29.06.2023)						

JULY 2023	22	16	20 (For full Algebra Unit)	<b>UNIT – II: ALGEBRA</b> <b>LINEAR EQUATIONS IN TWO VARIABLES</b> Recall of linear equations in one variable. Introduction to the equation in two variables. Focus on linear equations of the type $ax + by + c = 0$ . Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers, plotting them and showing that they lie on a line.		PWT-1 (17-19 JULY'23)
		07	04	<b>UNIT – III: COORDINATE GEOMETRY</b> <b>COORDINATE GEOMETRY</b> The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations.	<b>Activity -11</b> To find the values of abscissa and ordinates of various points given in a Cartesian plane.	
AUGUST 2023	23	15	27 (For full Geometry Unit)	<b>UNIT – IV: GEOMETRY</b> <b>LINES AND ANGLES</b> 3) (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is $180^\circ$ degrees and the converse. 4) (Prove) If two lines intersect, vertically opposite angles are equal. 5) (Motivate) Lines which are parallel to a given line are parallel.	<b>Activity -13</b> To verify Experimentally that if two lines intersect, then <ul style="list-style-type: none"> <li>the vertically opposite angles are equal.</li> <li>the sum of two adjacent angles is <math>180^\circ</math>.</li> <li>the sum of all the four angles is <math>360^\circ</math>.</li> </ul>	PWT-2 (21- 23 August 2023)
		10	<b>TRIANGLES</b> <ul style="list-style-type: none"> <li>(Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence).</li> <li>(Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence).</li> </ul>	<b>Activity -14</b> To verify experimentally the different criteria for congruency of triangles using triangle cut-outs. <b>Activity -15</b> To verify that the sum of the angles of a triangle is $180^\circ$ .		



SEPTEMBER 2023	24	12	06	<b>TRIANGLES (Continued)</b> 8) (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence) 9) (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence) 10) (Prove) The angles opposite to equal sides of a triangle are equal. 11) (Motivate) The sides opposite to equal angles of a triangle are equal.	<b>Activity- 32</b> To draw histograms for classes of equal widths and varying widths.
		15		<b>UNIT – VI: STATISTICS &amp; PROBABILITY</b> <b>STATISTICS</b> Bar graphs, histograms (with varying base lengths), and frequency polygons. <b>Syllabus for probability not mentioned in both CBSE curriculum and NVS PAP 2023-24</b>	

Half Yearly Examination/Term -1 (03.10.23 to 14.10.23)

OCT 2023	06	07	27 (For full Geometry Unit)	<b>INTRODUCTION TO EUCLID'S GEOMETRY</b> History - Geometry in India and Euclid's geometry. Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. The five postulates of Euclid. Showing the relationship between axiom and theorem, for example: (Axiom) 1. Given two distinct points, there exists one and only one line through them. (Theorem) 2. (Prove) Two distinct lines cannot have more than one point in common.

Autumn Break (23.10.2023 to 15.11.2023)

NOVEMBER 2023	12	13	27 (For full Geometry Unit)	<b>UNIT – IV: GEOMETRY</b> <b>QUADRILATERALS</b> <ul style="list-style-type: none"> <li>• (Prove) The diagonal divides a parallelogram into two congruent triangles.</li> <li>• (Motivate) In a parallelogram opposite sides are equal, and conversely.</li> <li>• (Motivate) In a parallelogram opposite angles are equal, and conversely.</li> <li>• (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.</li> <li>• (Motivate) In a parallelogram, the diagonals bisect each other and conversely.</li> <li>• (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and in half of it and (motivate) its converse.</li> </ul>	<b>Activity -6</b> To verify the algebraic identity: $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$	
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DECEMBER 2023	2 2	26	20 (For full Algebra Unit)	<b>UNIT – II: ALGEBRA</b> <b>POLYNOMIALS</b> Definition of a polynomial in one variable, with examples and counter examples. Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial. Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. Factors and multiples. Zeros of a polynomial. Motivate and State the Remainder Theorem with examples. Statement and proof of the Factor Theorem. Factorization of $ax^2 + bx + c$ , $a \neq 0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities. Verification of identities: $(x+y+z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$ $(x \pm y)^2 = x^2 \pm y^2 \pm 2xy$ $x^3 + y^3 = (x+y)(x^2 - xy + y^2)$ $x^3 + y^3 + z^3 - 3xyz = (x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)$ and their use in factorization of polynomials	<b>Activity – 20</b> To find the formula for the area of a trapezium experimentally.	PWT-3 07 DEC - 09 DEC 23
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JANUARY 2024	21	17	27 (For full Geometry Unit)	<b>CIRCLES</b> 1.(Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse. 2.(Motivate) The perpendicular from the centre of a circle to a chord bisects the chord and conversely, the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord. 3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the centre (or their respective centres) and conversely. 4.(Prove) The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle. 5.(Motivate) Angles in the same segment of a circle are equal. 6.(Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle. 7.(Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is $180^\circ$ and its converse.	<b>Activity -23</b> To verify that the angles in the same segment of a circle are equal	
FEBRUARY 2024	22	17	13 (For full Mensuration Unit)	<b>Unit- V Mensuration SURFACE AREAS &amp; VOLUMES</b> Surface areas and volumes of spheres (including hemispheres) and right circular cones.	<b>Activity -30</b> To find a formula for the curved surface area of a right circular cylinder, experimentally	PWT-4 01 FEB - 03 FEB 2024
MARCH 2024	26			<b>REVISION &amp; TERM-II/ANNUAL EXAMINATION</b>  14-27 March 2024		

Prescribed Books:

- Mathematics - Textbook for Class IX, NCERT Publication
- Mathematics Exemplar Problems for Class IX, Published by NCERT
- Laboratory Manual- Mathematics, secondary stage, published by NCERT
- Guidelines for mathematics Laboratory in Schools, Class IX- CBSE Publication

<http://www.ncert.nic.in/exemplar/labmanuals.html>

**Note:**

- Any Changes in the syllabus, if announced by CBSE during the academic year 2023-24, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website.
- The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class IX, published by CBSE. Throughout the year any 10 to 12 activities shall be performed by the student from the activities given in the Lab Manual.
- Number of periods for each chapter is mentioned as given in CBSE Curriculum.

## NAVODAYA VIDYALAYA SAMITI

CLASS: IX

SUBJECT: MUSIC

- Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- Students explore Local Folk Culture
- Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concepts with a broader vision.
- Students are exposed to the integration of latest technology in music.

**Main-  
Topics and  
Sub -  
Topics to be  
Covered**

**Projects/Art (Performing) Integrated  
Pedagogy- Activities  
Prescribed**

**Assessment  
Tool(s)/ Practical  
Activities  
Prescribed  
(Vocal/  
Instrumental)**

APRIL/JUNE 2023	25	04	1. Community song Telugu	<p>SUGGESTED ACTIVITIES</p> <ul style="list-style-type: none"> <li>• Word by word recitation of the song by teacher followed by students</li> <li>• Discussion meaning of the song.</li> <li>• Recitation of tune by teacher followed by students.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Language &amp; Literature :</li> <li>• Students get exposed to another language and literature.</li> </ul> <p>Social Science</p> <p>Students get exposed to the art &amp; Culture of Andhra and Telangana.</p>	<ul style="list-style-type: none"> <li>• Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>• Project Work – A. Students are asked to prepare charts containing brief information about population, education ratio, festivals, cousins, main crops, water reservoirs, historical monuments, freedom fighters etc. of Andhra and Telangana</li> </ul>
JULY 2023		04	2.Theory : Musical Instruments and Classification	<ul style="list-style-type: none"> <li>• Discussion about the classification of Musical instruments.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>X) Physics Students are exposed to the scientific area of the sound production on different music Instruments and its tonal variations, pitch, timbre etc.</p> <p>XI) History Students explore the historical reference of musical instruments and will be able to understand the origin and evolution of the same.</p>	<ul style="list-style-type: none"> <li>• Question – Answer</li> <li>• Project work – prepare a presentation of musical instruments as per their category.</li> </ul> <p>Students are asked to identify some musical instruments by playing audio files.</p>
	23	04	3. Introduction to orchestration of a song.	<ul style="list-style-type: none"> <li>• Discussion about the construction of light songs</li> <li>• Discussion on the use of musical instruments in the orchestration</li> <li>• Discussion about the aesthetic value of a musical composition.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>Science :</p> <ul style="list-style-type: none"> <li>• Students get exposed to the area of sound and emotion</li> <li>• Students are exposed to the world of latest musical trends and digital music production.</li> </ul>	<p>xvii) By using digital resources on internet.</p> <p>xviii) Project Work – Students are asked to identify the musical instruments which used in songs</p> <p>xix) Students are asked to create an orchestration for simple songs with available resources in the vidyalaya.</p>

AUGUST 2023	19	04	4.Introduction to the Raga system of Carnatic Music OR Hindustani music	<ul style="list-style-type: none"> <li>• Discussion about raga system Melakartha Ragas/ Equivalent Hindustani system</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Language &amp; Literature: Students learn about the ancient reference about raga and rasa.</li> <li>• Art &amp; Culture: Students get exposed to the rich cultural and systematic approach of the ancestors towards the development of art.</li> </ul>	With the use of digital resources Students are asked to prepare a list of popular ragas
SEPTEMBER 2023	23	03	5.Patriotic song in Hindi	<ul style="list-style-type: none"> <li>• Word to word recitation of the song by teacher followed by students.</li> <li>• Recitation of the song by teacher followed by students (Interdisciplinary Approach)</li> <li>• Prepare a chart / ppt depicting geographical diversity of India</li> <li>• Prepare a chart of arousal of different Civilizations</li> </ul>	Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).
		04	6.Theory: Brief Introduction to the classical music systems of India	<p>Brief discussion about the classical music system in India</p> <p>Discussion about differences in the singing style and use of musical instruments in the systems.</p> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Social: Students get exposed to the history of Indian music, culture and its development through the influence of foreign powers.</li> </ul>	<p>xvii) Question – Answer about the systems of music in India</p> <p>xviii) Preparation of a chart of major significance of these systems.</p> <p>xix) Preparation of chart on Great musicians of the systems.</p>

OCTOBER 2023	14	02	7. Community Song in regional language.	<ul style="list-style-type: none"> <li>• Discussion about lyrics and its meaning.</li> <li>• Word by word recitation by teacher followed by student.</li> <li>• Recitation of tune by teacher followed by students (Interdisciplinary Approach)</li> </ul> <p>Civics :</p> <p>11. Students are exposed to the values of unity in diversity.</p> <p>12. Students are given an idea about values of Secularism in our Constitution.</p>	<p>13. Vocal / Instrumental performance</p> <p>14. Question – Answer about Values of Secularism as contemplated in constitution of India.</p>
		02	8.Theory: Comparative study of Indian and western music	<p>8. Discussion about the systems and their demonstration using digital resources.</p> <p>9. Discussion about the structure and style of performance.</p> <p>10. Discussion about the development in these art forms.</p> <p>11. Comparative study of the notation system and use of technology.</p>	<p>Question – Answer about these music systems</p> <ul style="list-style-type: none"> <li>• Vocal / Instrumental performance</li> <li>• Students are asked to prepare a chart on fundamental elements of both systems</li> </ul>
	<b>TERM I EXAM</b>				
NOVEMBER 2023	26	02	9.Life history of Thygarajaswamikal / Amir Khusru/ Swati Thirunal.	<p>9. Discuss about the life and contributions of Thygarajaswamikal/Amir Khusru/Swati Thirunal</p> <p><b>(Interdisciplinary Approach)</b></p> <p>Social Science</p> <p>Students explore the history of India and social life of pre independent era.</p>	<p>Question – Answer about contributions of these personalities.</p> <p>Project work- to prepare a list of major contributions of these personalities given to the field of music.</p>



		02	10. Life History of Beethoven.	<p>8. Discuss about the life and contribution of the personality.</p> <p>9. Discuss about the development of art form during his/her period</p> <p><b>(Interdisciplinary Approach)</b></p> <p>Art&amp; Literature: Students explore the history of western music, culture and contributions to the world of music.</p>	<p>9. Question – Answer about theoretical aspects of Raga</p> <p>10. Vocal / Instrumental performance</p> <p>11. Ability to recognize Raga from phrases of swaras during viva test (Practical Exam)</p>
		02	11. Outline knowledge of raga Mohanam Or Bhupali	<p>7. Discussion about structure of Raga and notes used in it.</p> <p>8. A small bandish (Composition) in Raga Listening different types of famous Bhajans and light music song to make the concept clearer.</p>	<p>6. Question – Answer about theoretical aspects of Raga</p> <p>7. Vocal / Instrumental performance</p> <p>8. Ability to recognize Raga from phrases of swaras</p>
		02	12. Outline knowledge of raga Hamsadwani	<p>4. Discussion about structure of Raga and notes used in it.</p> <p>5. A small bandish (Composition) in Raga Listening different types of famous Bhajans and light music song to make the concept clearer.</p>	<p>10. Question – Answer about theoretical aspects of Raga</p> <p>11. Vocal / Instrumental performance</p> <p>12. Ability to recognize Raga from phrases of swaras .</p>
DECEMBER 2023	12	02	13. Introduction of online music composing software	<p>8. Discussion about music sequencer</p> <p>9. Demonstration using free online software for the purpose. Eg: <a href="https://onlinesequencer.net/">https://onlinesequencer.net/</a></p> <p>10. Discussion about the latest technology in the field of music.</p> <p><b>(Interdisciplinary Approach)</b></p> <p>ICT</p> <p>Students get exposed to the field where computers play vital role in making music. Students explore the capabilities of programming in computer</p>	<p>8. Students get a chance to personally experience the tool in computer lab or smart class.</p> <p>9. Students are asked to compose simple music loops with the help of free soft wares.</p>
<b>WINTER BREAK</b>					

JANUARY 2024	21	04	14. Introduction of audio editing software	<p>9. Demonstration of free audio editing software using online video resources.</p> <p>10. Demonstration of recording &amp; editing of sound file using free online software Eg: <a href="https://editor.audio/en/">https://editor.audio/en/</a></p> <p><b>(Interdisciplinary Approach)</b> ICT: Students explore the new digital technology in recording, editing and manipulating of audio files which is useful for academic and other co - curricular activities.</p>	<p>16. Students are shown videos of audio recording studio session or demo videos of different audio editing soft wares.</p> <p>17. Students may be given a chance to do the sound editing in computer lab or smart class.</p> <p>18. Students may be asked to do a presentation on digital music production platforms.</p>
FEBRUARY 2024	22	03	<b>REVISION OF ALL THE TOPICS &amp; PRACTICAL EXAMS (VOCAL / INSTRUMENTAL)</b>		
MARCH 2024	12		<b>ANNUAL EXAMINATION</b>		

8. As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
9. Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
10. Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.

## NAVODAYA VIDYALAYA SAMITI

**CLASS – IX**

**SUBJECT: PHYSICAL EDUCATION**

Standing and Standard Instructions:

1. Morning Jogging/Warm Up Exercises/ Mass Drills /Aerobics/Yoga and Meditation
2. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
- 3- Inter House Competitions as per Vidyalaya Calendar of Activities
- 4- Holding Periodical Cross-Country Race/Walk.
- 5- Trekking and Hiking Activities at least once in a year
- 6- Showing Live Matches to Children
- 7- Martial Arts / Self Defence Skills through Resource Persons
- 8- Fit India Movement activity should be conducted as per schedule
- 9- Special day must be celebrated i.e., Yoga Day, National Sport Day
- 10- ICT to be a part of the pedagogy to make learning enjoyable and joyful

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)	Topics And Sub-Topics	
APRIL 2023	25	04	Jogging & Warming up, Circuit training to be increased progressively,  Yogasana: Surya namaskar, Tadasana, Vrikshasana, Trikonasana, Padhahasthasana & Ardha Chakrasana	Practice of basic skills of Basketball, cricket (Bowling & Batting). Jumps & Throws and related exercise.  Battery Test to analyze the ability of the students	<ul style="list-style-type: none"> <li>. Meaning and concept of Physical Education</li> <li>. Aims and objectives of Physical Education.</li> <li>. Development of physical, mental, social, emotional and Neuro-muscular coordination.</li> <li>. Changing trends in Physical Education.</li> </ul>	Science: Area & Dimension  Activity Name: Layout of a Court

JULY 2023	2 3	0 4	Jogging & Ply metric exercise: Training to develop strength. Asanas of lying position: Uthanapadhasana, Ardhalasana, Ardhashalbhasana, Bhujangasana, Dhanurasana.	Selection of students for appropriate sports and games based on the battery test analyses. Handball, Volleyball, Athletics. Basic skills of jumps, throws and track events.	Meaning and concepts of physical fitness. Components of physical fitness: Speed, Strength, Endurance, Flexibility, Balance & Co-ordination. Development of physical fitness through sports and games	Science: Motion: Linear, circular and accelerated motion.  Activity Name: Components of fitness
ASSESSMENT OF COMPONENTS OF FITNESS						
AUGUST 2023	2 4	0 4	Jogging & General Warming-up. Interval training for speed and endurance. Practice of March past.  Suryanamaskar. Yogasana: sitting position: Paschimottanasana, Ardhapadmasana, Padmasana, Vajrasana, Vakrasana, Ushtrasana, Gomukhasana, Shashankasana.	Assessment of components of fitness. Practice of improved skills in the selected game. Practice of different skills of jumps and throws.		Meaning and concept of First aid measures. Introduction to general sports injuries to soft tissues, bones and joints.
SEPTEMBER 2023	2 6	0 5	General conditioning exercises: Mobility, Stretching, etc. Yogasana: Halasana, Sarvangasana, Supta Vajrasana Kapalbathi, Anuloma Viloma Pranayama & Brahmari pranayama.	Practice of improvised skills of Football and Handball. Practice of Relay Baton exchange and Hurdling.		Meaning and importance of Yoga Meditation in day-to-day life. Stress and its management.

OCTOBER- NOVEMBER 2023	2 7	0 4	Jogging and warming-up. Proprioceptive training exercises to develop neuromuscular coordination. Practice of different Asanas and Pranayama.	Lead-up activities for speed development. Game situation of Kho-Kho and Kabaddi.	Pace setting activities Role of sports in creating fit citizens.	Science: Force and Laws of motion  Activity name: Kho-Kho
ASSESSMENT OF SKILLS IN KHO-KHO						
DECEMBER- JANUARY 2024	4 5	0 8	Rhythmic Activities: Lazium, Hula hoops, Aerobic Dance, Zumba Dance, etc. Yogasana: Ardha Halasana, Halasana, Sarvangasana, Shavasana, etc.	Assessment of skills in kho kho  Practice of different track and field events for Annual Sports day. Practice of March Past and Mass Drills.		Postural Deformities and its corrective exercise: Kyphosis, Lordosis and Scoliosis. Knock- knee, Bow leg and flat Foot
FEB / MARCH 2024	3 5	0 7	Jogging and warming up. Cross fit training for comprehensive development. Different types of walking: Toe Walk, Heel Walk, Duck Walk, Crab Walk, etc.	Practice/friendly matches.  Athletics: Improved techniques for start and finish.	Nutrition & Diet: Micro & Macro Nutrients. Sports Nutrition and Balanced Diet	Children asked to run 100 meters and jump for 5 minutes.

NAVODAYA VIDYALAYA SAMITI

CLASS-IX

SUBJECT: SCIENCE (086)

Unit No.	Unit	Marks	Periods
I	Matter- Its Nature and behaviour Chapters(1-4)	25	78
II	Organisation in the living world Chapters(5-6)	22	59
III	Motion, Force and Work Chapters(8-12)	27	78
IV	Food ; Food Production Chapters(15)	06	19
	Total	80	
	Internal assessment 1.Periodic Written Test (5M) 2. Multiple assessment (5M) 3. Portfolio (5M) 4. Subject enrichment activity(5M)	20	
	Grand Total	100	

MONTH	NO.OF DAYS	NO.OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESMENT TOOLS(SUGGESTED)
APRIL/JUNE-2023	23 DAYS	12	<b>Organisation in Living World</b> Cell - Basic Unit of life : Cell as a basic unit of life; prokaryotic and eukaryotic cells, multi cellular organisms; cell membrane and cell wall, Nucleus, chromosome- basic structure, number. cell organelles and inclusions	1. To prepare stained temporary mounts of (a) onion peel and (b) Human cheek cells and to record observations and draw their labelled diagrams.
		12	<b>Matter its Nature and Behaviour:</b> Definition of matter-solid, liquid and gas. Characteristics-shape, volume, density.	To determine the melting point of ice and the boiling point of water
		12	<b>Motion Force &amp; Work:-</b> Idea of motion, types with examples ,Distance and displacement, velocity; uniform and non uniform motion along a straight line	

JULY-2023	23 DAYS	9	<b>Organisation in Living World</b> Cell - Basic Unit of life : endoplasmic reticulum, Golgi apparatus, chloroplast, mitochondria, vacuoles,	
		9	<b>1.Matter its Nature and Behavior:</b> <b>Matter in Our Surroundings</b> Change of state-melting, freezing, evaporation, condensation, sublimation, Evaporation (cooling by evaporation).	To prepare a)mixture b)compound using iron filings and sulphur powder and distinguish these on the basis of i)appearance i.e.,homogeneity/heterogeneity ii)behavior towards a magnet iii)behavior towards carbon dioxide sulphide iv)effect of heat.
		9	<b>Motion Force &amp; Work:</b> Acceleration ,distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion, <b>Force and Newton’s laws:</b> force and motion Newton’s laws of motion	
		<b>PWT-1: 17 TO 19 JULY 2023</b>		
AUGUST-2023	23 DAYS	14	<b>Tissues, Organs, Organ System, Organism</b> Structure and functions of Animals and plant tissues (Only four types of tissues in animals meristematic and permanent tissues in plants).	2.To identify parenchyma and Collenchyma,sclerenchyma tissues in plants striated, smooth and cardiac muscle fibres and nerve cells in animals from prepared slides and to draw their labelled diagrams.



		14	<b>Nature of Matter:</b> <b>Is Matter Around Us Pure</b> Elements, compounds and mixtures. homogeneous/heterogeneous Mixtures :	Practical. :To carry out the following reactions and classify them as physical and chemical changes a) reaction between iron and copper sulphate solution. b) burning of magnesium ribbon in air. c) zinc with dil. H <sub>2</sub> SO <sub>4</sub> d) Heating of CuSO <sub>4</sub> . e) Na <sub>2</sub> SO <sub>4</sub> (aq) and BaCl <sub>2</sub> (aq)
		14	<b>Motion Force &amp; Work :</b> Action and reaction forces, inertia of a body inertia and mass, momentum, force and acceleration Momentum, force and acceleration.	

**Period Written Test-2: 21 TO 23 AUG 2023**

SEPTEMBER-2023	23 DAYS	5	Tissues, Organs, Organ System, Organism Structure and functions of Animal tissues ( four types of tissues in animals)	-----
		12	<b>Matter Its Nature And Behavior:</b> Colloids and suspension, Physical and Chemical changes (Excluding separating the components of a mixture)	Preparation of true, suspension and colloidal solution and distinguishing them on the basis of I. Transparency 2. filtration 3. Stability II. Performing following reactions 1. Iron with copper sulphate solution in water 2. Burning of magnesium ribbon in air 3. Zinc with dilute sulphuric acid 4. Heating of copper sulphate crystals 5. Sodium sulphate with barium chloride in the form of their solutions in water
		7	<b>Motion, Force and Work:</b> <b>Gravitation:</b> Gravitation; universal law of gravitation, force of gravitation of the earth (gravity), acceleration due to gravity; mass and weight; free fall.	Determination of density of solid using spring balance and measuring cylinder

OCTOBER-2023		TERM-1 3 TO 14 TH OCT 2023	
NOVEMBER-2023	13 DAYS	13	<b>Food Production:</b> Plant and Animal Breeding
		10	<b>Matter its Nature and Behavior</b> Atoms and Molecules, Chemical Formula of common compounds, Law of Chemical combination, Atomic and molecular masses,
		13	<b>Motion Force &amp; Work Floatation:</b> Thrust and pressure. Archimedes' principle, buoyancy,
DECEMBER-2023	24 DAYS	12	<b>Improvement in Food Resources:</b> Selection for Quality Improvement and Management
		12	<b>Atoms and Molecules :</b> Valence, Chemical formulae of common compounds. <b>Structure of Atoms:</b> Electrons, protons and neutrons, valency

		12	<b>Work energy and Power:</b> Work done by force, energy power, kinetic energy, potential energy, law of conservation of energy (excluding commercial unit of energy)	
		<b>Periodic Written Test-3    7 TO 9 DEC 2023</b>		
January-2024	27 days	7	<b>Sound</b> : Nature of sound and its propagation in various media speed of sound Range of hearing in humans; ultrasound, Reflection of sound ,echo	Verification of law of Reflection of sound, Determination of speed of pulse propagated through a stretched string
		7	<b>Structure of Atoms:</b> Atomic number, mass number, Isotopes and isobars	
		7	<b>Improvement in Food Resources:</b> Use of Fertilizers and manures, Protection from pests, and Diseases, Organic farming	
February- 2024		<b>Periodic Written Test-4    1 TO 3 FEB 2024    REVISION</b>		
March-2024		<b>TERM-2 EXAMS 14 TO 27 MARCH 2024</b>		

**Topics For Revision**

**Law of Conservation of Mass, Law of constant proportions, Daltons atomic Theory  
Atom, Molecule, ions, Formulae of compound between ions, Concept of Mole ,Molecular Mass/Formulae  
unit Mass-Numerical, Structure of Atom-Discovery and properties of Electrons, Protons and Neutrons,  
Atomic models, Distribution of Electrons ,Balancing**

**Note: For the teachers is given in activity and assignment**

Distribution of chapters:						
	PWT-1	PWT-2	TERM-1	PW,T-3	PWT-4	TERM-2
Chapte r No.s	1,8,9,5	2(part-1)9,6	1,2(part-2),8,9, 10(part-1),5,6	3,4(part-1), 10(part-2),11, 15(part-1)	4(part-2),12, 15(part-2)	3,4,10,11,12,15
Bio	1	1	2	1	1	3
Che	1	1	2	2	1	4
Phy	2	1	3	2	1	5
TOT	4	3	7	5	3	12

NAVODAYA VIDYALAYA SAMITI

CLASS IX

SUBJECT: SOCIAL SCIENCE

COURSE STRUCTURE

UNITS	NAME OF THE CHAPTER /UNIT NAME	MARKS	PERIODS
I	INDIA AND THE CONTEMPORARY WORLD – I (HISTORY)	20	60
II	CONTEMPORARY INDIA -I (GEOGRAPHY)	20	60
III	DEMOCRATIC POLITICS	20	50
IV	ECONOMICS	20	50
	<b>TOTAL</b>	80	220
	<b>INTERNAL ASSESSMENT</b>	20	
	<b>GRAND TOTAL</b>	100	

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS	
April-July	36 Days- 50 Periods		<p><b>India and Contemporary World – I.</b></p> <p><b>The French Revolution:</b> · French Society During the Late Eighteenth Century · The Outbreak of the Revolution France Abolishes Monarchy and Becomes a Republic · Did Women have a Revolution? · The Abolition of Slavery · The Revolution and</p>	<p>Familiarize with the names of people involved, the different types of ideas that inspired the revolution, the wider forces that shaped it. · Know the use of written, oral and</p>	<p>1.Compare the manifesto drafted by Olympede Gouges with the declaration of the Rights of Man and Citizen</p> <p>2.Discuss and compare the Declaration of Rights of Man and Citizen of France with the Fundamental Rights of India.</p> <p>3. Debate on society of Estate (France) and 4 varna system of Ancient India.</p> <p>4. Map activities: locating the important cities/centres of French revolution on the</p>

		<p>Everyday Life. <b>(Chapter-1) Contemporary India –I</b></p> <p><b>India · Location · Size · India and the World · India's Neighbors.</b></p> <p><b>(Chapter-1) Economics</b></p> <p><b>The Story of Village Palampur:</b> · Overview</p> <p>Organization of Production Farming in Palampur Non-farm activities in Palampur.</p> <p><b>(Chapter-1)</b></p>	<p>visual material to recover the history of revolutions.</p> <p>Identify the location of India in the Indian Sub-continent.</p> <p>Familiarize with basic economic concepts through an imaginary story of a village.</p>	<p>outline political map of France.</p> <p>1. Draw a Bar Graph showing some of the highest mountain peaks in Himalayas with their height.</p> <p>2. Prepare a table chart showing the extent, location, size, population of 7 largest Countries in the world. Design Poster on Electricity and the changing face of a village” .</p> <p>3. Organise a Field trip to have hands on experience in various Farming Activities of Carried out in a Village</p>
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**ASSESSMENT OF SUBJECT ENRICHMENT ACTIVITIES & NOTE BOOK EVALUATION TO BE DONE AT THE END OF THE MONTH. (HOLIDAY HOMEWORKS/ASSIGNMENTS TO BE ADMINISTERED BEFORE PROCEEDING FOR VACATION IN MAY & JUNE).**

		<p><b>Democratic Politics -I</b></p> <p><b>What is Democracy? Why Democracy? ·</b></p> <p>What is Democracy? · Features of Democracy Why Democracy? · Broader Meanings of Democracy.</p> <p><b>(Chapter-1)</b></p>	<p>1. Brain teaser question - Is it good to elect someone as president for life? Or is it better to hold regular elections after every few years.</p> <p>2. Hold debate on the topic “Is it possible to have direct democracy in India”?</p>
		<p><b>Contemporary India –I</b></p> <p><b>Physical Features of India:</b> · Major Physiographic Divisions – Himalayan Mountains, Northern Plains, Peninsular Plateau, Indian Desert, Coastal Plains, and Islands.</p> <p><b>(Chapter-2)</b></p>	<p>1. Prepare a Power Point presentation on “Theory of Plate Tectonics” with 3 Defects</p> <p>2. Develop Geography Park representing Physical features of India and their importance.</p>
		<p><b>India and contemporary world – I</b></p>	<p>1. Hold debate and discussion on the</p>

			<p><b>Socialism in Europe and the Russian Revolution:</b> · The Age of Social Change. The Russian Revolution · The February Revolution in Petrograd · What Changed after October? The Global Influence of the Russian Revolution and the USSR.</p> <p><b>(Chapter-2)</b></p> <p><b>Economics</b></p> <p><b>People as Resource:</b> · Overview · Economic Activities by Men and Women · Quality of Population · Unemployment</p> <p><b>(Chapter-2)</b></p>	<p>relevancy and application capitalists and socialist ideas on private property in Contemporary Indian Society.</p> <p>2. Comparative study on pros and cons of Collective Farming (Kolkhoz) in Russia and Intensive and Extensive farming in India.</p> <p>3. The Mono act OR Role play on the personalities involved in the Russian revolution.</p> <p>4. Map Activities: On the outline political map of world ( For location and labeling /identification) Major countries of first world war, Central powers and Allied powers. 1.Brain Teaser question The large population need not be a liability; It can be turned into a productive asset”.</p> <p>3.Present a Skit- How Doctor, Teacher, Engineer and Tailor are an asset to the Economy.</p>
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**PWT – 1 ASSESSMENT OF SUBJECT ENRICHMENT ACTIVITIES & NOTE BOOK EVALUATION TO BE DONE AT THE MONTH OF JULY.**

JULY-AUG	25 DAYS	40 PERIODS	<p><b>India and contemporary world – I</b></p> <p><b>Nazism and the Rise of Hitler:</b> · Birth of the Weimar Republic · Hitler’s Rise to Power · The Nazi Worldview · Youth in Nazi Germany · Ordinary People and the Crimes Against 20Humanity.</p> <p><b>(Chapter-3)</b></p>	<p>1.Hold seminar on the topic Hitler came to power by election but later on he became a dictator. why do we think such a situation cannot arise in India?</p> <p>2.Compare and contrast Nazi concentration camps with present day Indian Prisons.</p> <p>3. Present a skit on the speeches of Hitler.</p> <p>4.Map activities : On the outline political map of world (For locating and labelling / identification) major countries of second world war. Axis powers and Allied powers.</p>
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		<p><b>Democratic Politics -I Constitutional Design:</b> · Democratic Constitution in South Africa · Why do we need a Constitution? · Making of the Indian Constitution · Guiding Values of the Indian Constitution.</p> <p><b>(Chapter-2)</b></p>	<p>1.Presentation of Autobiography of Nelson Mandela “The long walk to Freedom” in the class room.</p> <p>2.Compare the Preamble to the constitution of the USA, INDIA, and South Africa. Make a list of ideas that are common to all these three.</p>
		<p><b>Contemporary India –I</b></p> <p><b>Drainage Systems in India</b> · The Himalayan Rivers - Ganga and Brahmaputra River System. The Peninsular Rivers- Narmada Basin, Tapti Basin, Godavari Basin, Mahanadi Basin, Krishna Basin, Kaveri Basin · Lakes · Role of Rivers in the Economy · River Pollution.</p> <p><b>(Chapter-3)</b></p>	<p>1.Prepare a model on Interlinking of Rivers in India</p> <p>2.Draw the any River System of India and label the different parts of the river.</p>

**PWT 2 (AUG)**

**ASSESSMENT OF SUBJECT ENRICHMENT ACTIVITIES & NOTE BOOK EVALUATION TO BE DONE.**

		<p><b>India &amp; the Contemporary World –I</b></p> <p><b>Forest Society and Colonialism:</b> · Why Deforestation? · The Rise of Commercial Forestry · Rebellion in the Forest · Forest</p> <p><b>(Chapter-4)</b></p>	<p>1.Visit any Tribal Museum which was setup nearby and collect the life history, customs and traditions of tribal people and compare them with the tribal people living in J&amp;K such as Gujjars, Ghaddis, Bakarawals.</p> <p>2. Present a skit on How Forest Laws affected Lively hood of Forest.</p> <p>3. Debate on the Baster rebellion (tribal).</p> <p>4. Drama o how oral traditions can be used to explore tribal revolts.</p> <p>5. Group discussion on causes of deforestation in India during</p>
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				British rule.  6. Map activities. Locate the major tribes of India on outline political map of India.
SEP-OCT	31 DAYS	50 PERIODS	<p><b>Contemporary India – I</b></p> <p><b>Climate:</b> · Concept · Climatic Controls · Factors influencing India’s climate – Latitude, Altitude, Pressure and Winds (excluding Jet Streams and Western Cyclonic Disturbances and related figures) · The Seasons – Cold Weather Season, Hot Weather Season, Advancing Monsoon, Retreating/Post Monsoons · Distribution of Rainfall · Monsoon as a unifying bond.</p> <p><b>(Chapter-4)</b></p>	<p>1.Demonstration of instruments of elements of weather</p> <p>2.Skit on cycle of seasons and their influence on the life of people.</p>
			<p><b>Economics</b></p> <p><b>Poverty as a Challenge:</b> · Overview · Two typical cases of Poverty Poverty as seen by Social Scientists</p> <ul style="list-style-type: none"> <li>· Poverty Estimates</li> <li>· Vulnerable Groups</li> <li>· Interstate Disparities</li> <li>· Global Poverty Scenario</li> <li>· Causes of Poverty</li> <li>· Anti-Poverty measures</li> <li>· The Challenges Ahead.</li> </ul> <p><b>(Chapter-3)</b></p>	<p>1.Present a Skit on how “Social and economic groups more vulnerable to poverty”</p> <p>2. Hold debate on Anti Poverty Measures and Effective implementation.</p>
			<p><b>Democratic Politics –I</b></p> <p><b>Electoral Politics:</b> · Why Elections? · What is our System of Elections? · What makes elections in India democratic?</p>	<p>1.Hold Mock Polling &amp; Counting in Class Room</p> <p>2.Hold Mock cabinet meeting and passing G.Os in class room</p>

			(Chapter-3)	3.Role play -Returning officer of an election
<b>TERM I (OCT)</b>				
<b>ASSESSMENT OF SUBJECT ENRICHMENT ACTIVITIES &amp; NOTE BOOK EVALUATION TO BE DONE. (A PROJECT ON DISASTER CAN BE ADMINISTERED BEFORE PROCEEDING FOR THE AUTUMN BREAK/VACATION DURING THE MONTH OF OCTOBER).</b>				
			<b>Contemporary India – I</b> <b>Natural Vegetation and Wild Life:</b> · Types of Vegetation – Tropical Evergreen Forests, Tropical Deciduous Forests, Thorn Forests and Shrubs, Mountain Forests, Mangrove Forests · Wild Life. <b>(Chapter-5)</b>	1.Hold Live Demo of Medicinal plants and their uses 2.Hold group discussion on the subject human beings can learn from plants and animals to live harmoniously with mutual co-operation.
NOV-DEC	21 DAYS	40 PERIODS	<b>Democratic Politics -I</b> <b>Working of Institutions:</b> · How is the major policy decision taken? · Parliament · Political Executive · The Judiciary <b>(Chapter-4)</b>	1.Mock Parliament 2.Role play- President of India
			<b>Economics</b> <b>Food Security in India:</b> · Overview · What is Food Security? · Why Food Security? · Who are foods insecure? · Food Security in India · What is Buffer Stock? · What is the Public Distribution System? · Current Status of Public Distribution System · Role of Cooperatives in food security. <b>(Chapter-4)</b>	1. Collect data about the places of India where starvation deaths have been reported from different sources and prepare a brief report with steps / precautions can be taken to mitigate and avoid such an instances. 2. Hold debate on Contribution of public distribution system in ensuring food security to the poor people of India..
<b>PWT III (DEC)</b>				

DEC-JAN	35 DAYS	40 PERIODS	<p><b>India and the Contemporary World – I</b>  <b>Pastoralists in the Modern World:</b> ·                      Pastoral Nomads and their Movements ·                      Colonial Rule and Pastoral Life · Pastoralism in Africa.  <b>(Chapter-5)</b></p>	<p>1. Collect the information regarding the “A Camel Fair at Pushkar” and prepare the album.</p> <p>2. Undertake project on the topic pastoralists of Himalayas are at the cross roads.</p> <p>3. Present a skit/drama / an Article on the lifestyle of Raikas and Gollas (any pastoral communities) Highlight the significance of pastoral culture in India.</p> <p>4. Map activities. Locating the major Nomads (Pastoral community) of India on the outline map of India.</p>
			<p><b>Contemporary India – I</b>  <b>Population:</b> · Population Size and Distribution – India’s Population Size and Distribution by Numbers, India’s Population Distribution by Density · Population Growth and Processes of Population Change – Population Growth, Processes of Population Change/Growth.  <b>(Chapter-6)</b></p>	<p>1. Skit-Benefits of Small Family</p> <p>2.Skit- “Protect Gird Child”</p> <p>3. Draw the Population density-Maps of your city town. 1.Of the women in India are given 50% reservation in the legislatives what will be its impact on the nation</p> <p>2. Write news clippings to spread the awareness of human rights and struggles for human dignity.</p>
			<p><b>Democratic Politics -I</b>  <b>Democratic Rights:</b> · Life without Rights · Rights in a Democracy · Rights in the Indian Constitution · Expanding scope of rights.  <b>(Chapter-5)</b></p>	
			<p><b>Suggested Tools</b></p> <p>1.Role play</p> <p>2.Quiz</p> <p>3.Group Discussion</p> <p>4.Concept- Map</p>	

			<p>5.Blog</p> <p>6.Debate</p> <p>7.Art integrated Activity</p> <p>8.Sport integrated Activity</p> <p>9.Source based Analysis</p> <p>10.Assignments</p> <p>11.ComparisonandContrast</p> <p>12.Wall Magazines</p> <p>13.Skit</p> <p>14.Scrap Book</p> <p>15.Crossword Puzzles</p> <p>16.Data Interpretation and Analysis</p> <p>17.Projects</p> <p>18.Seminars</p> <p>19.Labelling of Pictures</p> <p>20.PowerPoint Presentations</p> <p>21.Creation of short Videos</p> <p>22.Representation of data and analysis</p> <p>23.Case Studies and reports</p> <p>24. Model making</p> <p>25. Surveys and Reports</p> <p>26.Odd one out</p> <p>27.Drawing cartoons</p> <p>28.Picture interpretations</p> <p>29.Passage interpretation</p> <p>30.Filling blank boxes with appropriate words</p>	
<p><b>PWT-IV</b></p> <p><b>TERM II /YEAR END</b></p> <p><b>ASSESSMENT OF SUBJECT ENRICHMENT ACTIVITIES &amp; NOTE BOOK EVALUATION TO BE DONE AT THE END</b></p>				

**OF THE MONTH.**

**February-2024 REVISION**

**March-2024 YEARLY EXAMINATION**

**Note:** Any Changes in the syllabus, if announced by CBSE during the academic year 2023-24, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard Principals and teachers will always remain In touch with CBSE and its website.

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: X**

**SUBJECT: AUTOMOTIVE**

**SUBJECT CODE: 404**

<b>Sections</b>	<b>Units</b>	<b>No of Hour and practical</b>	<b>Max Marks</b>
<b>PART A</b>	1.Communication Skills - II	13	-
	2. Self-Management Skills –II	07	3
	3.ICT Skills- II	13	3
	4.Entrepreneurial Skills- II	10	4
	5.Green Skills-II	07	-
	<b>TOTAL</b>	<b>50</b>	<b>10</b>
<b>PART B</b>	1.Automobile and its components	20	10
	2.Tools	10	06
	3.Vehicle Servicing	20	10
	4.Customer Sales care	15	04
	5.Innovation and Development	15	06
	6.Reading of service manual	10	04
	<b>TOTAL</b>	<b>90</b>	<b>40</b>
<b>PART C</b>	Practical	60	50
<b>GRAND TOTAL</b>		<b>200</b>	<b>100</b>

**Note - The Practical should be taught during regular hours, since they are part of theory classes.**

MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Topics/Activities/Projects/ Practical Experiments to be Held (Suggested)
APRIL	24	45	<p><b>Unit 1: Communication Skills-II</b>            Session 1: Methods of Communication            Session 2: Verbal Communication            Session 3: Non-verbal Communication            Session 4: Communication Cycle and Importance of Feedback            Session 5 : Barriers to Effective Communication            Session 6 : Writing Skills — Parts of Speech            Session 7 : Writing Skills — Sentences</p> <p><b>Unit 1: Automobile and its components</b>            Session 1: Chassis            Session 2: Body or Superstructure            Session 3: Engine            Session 4: Lubrication System            Session 5: Cooling System            Session 6: Fuel Supply System</p> <p><b><u>Session 7: Transmission System*</u></b>  <b><u>Session 8: Front Axle*</u></b>            Session 9 : Steering System            Session 10: Rear Axle</p> <p><b><u>Session 11:- Suspension System*</u></b>            Session 12: Wheel and Tyres            Session 13: Brakes            Session 14: Electrical and Electronics System</p>	<p><b>xx.</b> Demonstration of Auto body</p> <p><b>xxi.</b> Dismantling and assembly of petrol and diesel engine</p> <p><b>xxii.</b> Demonstration of parts of the lubrication system.</p> <p><b>xxiii.</b> Demonstration of water cooling system</p> <p><b>xxiv.</b> <b><u>*Types of Universal Joints</u></b></p> <p><b>xxv.</b> <b><u>*Live &amp; Dead Front Axle</u></b></p> <p><b>xxvi.</b> <b><u>*Types of arrangement of Front Axle</u></b></p> <p><b>xxvii.</b> <b><u>*Rigid Axle Beam</u></b></p> <p><b>xxviii.</b> Demonstration of the mechanical-type steering system</p> <p><b>xxix.</b> Demonstration of differential and various types of gears used in the final drive.</p> <p><b>xxx.</b> <b><u>*Common problems of the suspension system &amp;</u></b></p>

				<p><b>preventive measures</b></p> <p><b>xxxi.</b> Cut a section of the wheel</p> <p><b>xxxii.</b> Demonstration of the mechanical braking system</p>
JULY	22	40	<p><b>Unit 2 : Self-Management Skills-II</b>            Session 1 : Stress Management            Session 2 : Self-awareness — Strength and Weakness Analysis            Session 3 : Self-motivation            Session 4 : Self-regulation — Goal Setting            Session 5 : Self-regulation — Time Management</p> <p><b>Unit 2 : Tools</b>  <u>Session 1 - Hand Tool*</u>  <u>Session 2 - Measuring Tools*</u>  <u>Session 3 - Electrical Tools*</u>            Session 4: Special Tools            Session 5: Service Workshop Equipment</p> <p><b>Unit-3: Vehicle Servicing</b>            session 1: Washing of a Vehicle            Session 2: Changing of Oil and Oil Filter</p>	<p>(x) <b>Demonstration of all Hand Tools</b></p> <p>(y) <b>Demonstration of Measuring Tools</b></p> <p>(z) <b>Demonstration of Electrical Tools</b></p> <p>(aa) Model of special tools</p> <p>(bb) Working of air compressor and wheel balancing machine.</p> <p>(cc) Procedure for vehicle washing</p> <p>(dd) Procedure for changing of oil and oil filter</p>
<b>PWT I –17th to 19<sup>th</sup>JULY</b>				
AUGUST	23	40	<p><b>Unit 3: ICT Skills-II</b>            Session 1 : Basic Computer Operations            Session 2 : Performing Basic File Operations            Session 3 : Computer Care and Maintenance            Session 4 : Computer Security and Privacy</p> <p><b>Unit-3: Vehicle Servicing</b>            Session 3: Changing of Air Filter            Session 4: Changing of Fuel Filter            Session 5: Changing of Coolant            Session 6: Saving, closing, opening and printing Document</p>	<ul style="list-style-type: none"> <li>• Procedure for changing Air Filter Session</li> <li>• Procedure for changing Fuel Filter Session</li> <li>• Procedure for changing Coolant</li> </ul>
<b>PWT II – 21st to 23rd AUGUST</b>				



SEPTEMBER	23	35	<b>Unit 4: Entrepreneurial Skills-II</b> Session 1 : Entrepreneurship and Society Session 2 : Qualities and Functions of an Entrepreneur Session 3 : Myths about Entrepreneurship Session 4: Entrepreneurship as a Career Option  <b>Unit 4: Customer sales care</b> Session 1: Customer Service	v) Dramatization of customer service
OCTOBER	16	10	<b>Unit 5: Green Skills-II</b> Session 1: Sustainable Development	
<b>TERM-1(03.10.2023to14.10.2023)</b>				
<b>OCTOBER(23.10.2023to15.11.2023)–AUTUMN BREAK</b>				

NOVEMBER	13	30	<b>Unit 5: Green Skills-II</b> Session 2: Our Role in Sustainable Development <b>Unit-5: Innovation and Development</b> Session 1: Innovation and Development	<ul style="list-style-type: none"> <li>To make a presentation on new innovations</li> </ul>
DECEMBER			<b>(Revision &amp; Completion of Internal Assessment)</b>	
<b>Pre-Board-1(5.12.2023to16.12.2023)</b>				
JANUARY	<b>(Revision &amp; Completion of Internal Assessment)</b>			
<b>Pre-Board-2(11.01.2024to23.01.2024)</b>				
FEBRUARY	<b>(Revision &amp; Uploading of Internal Assessment Marks in CBSE Portal)</b>			
MARCH	<b>To be planned as per CBSE Time-Table for Board Exams 2023-2024</b>			

**\*Note: To be assessed in practical only. No question shall be asked from this portion of Theory exams**

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## NAVODAYA VIDYALAYA SAMITI

CLASS : X

SUBJECT: ART (VISUAL)

MONTH	NO. OF DAYS	NO. OF PERIODS	Main topics and sub-topics to be covered	Medium/ Materials	Projects/Art integrated Pedagogy Activities Prescribed	Assessment Tool(s)/Practical Hands on Activities Prescribed
APRIL- 2023	22	4	<p><b><u>Portrait Study:</u></b></p> <p>Students primarily practice drawing from live models.</p> <p>pp) Principles of drawing through Careful study of the human head.</p> <p>qq) Observation</p> <p>rr) Figure construction</p> <ul style="list-style-type: none"> <li>• Human anatomy</li> <li>• Composition</li> <li>• Proportion</li> </ul>	Pencil/Water Colour	Students may prepare portraits of National leaders, Scientists etc. Projects may integrate with Science, Social Science subjects.	Understanding the strength of drawing, learn about the characters.
<b>SUMMER VACATION</b>						
JULY 2023	25	4	<p><b><u>Composition Indian Painting</u></b></p> <p>Study of the Paintings of India like, <i>Rajasthani, Pahari, Miniature, etc.</i></p> <p>(Power point presentations may be prepared by the students, comprising the photographs &amp; artisans engaged in various art forms)</p>	Poster Colour/Any required materials	Projects may integrate with Social Studies and Language Subjects. Toys, Computers ICT & Art Pedagogy	Understanding of vast cultural heritage of Indian traditional Art forms.

AUGUST 2023	26	4	<p><b><u>Shadanga or Six Limbs of Indian Painting:</u></b></p> <ul style="list-style-type: none"> <li>● <b>Rupabheda:</b> The knowledge of appearance</li> <li>● <b>Pramanam:</b> Correct perception, measure and structure</li> <li>● <b>Bhava:</b> Action of feelings on forms</li> <li>● <b>Lavanya Yojanam:</b> Infusion of grace, artistic representation</li> <li>● <b>Sadrisyam:</b> Similitude</li> <li>● <b>Varnika Bhanga:</b> It is the artistic manner of using the brush and colours</li> </ul> <p>(Importance of knowledge of form, Proportion, Expression, Aesthetic Scheme, Similitude and Colour scheme for a person who is going to create a painting or sculpture.)</p>	Pencil, Water colour, Poster colour or Acrylic colour	Projects may integrate with Maths, Social Science.	Understanding and usage of different limbs of Indian Art in the art works created by students
SEPTEMBER 2023	24	4	<p><b><u>Composition Painting:</u></b></p> <p>Composition Painting based on daily life scenes to be done keeping in view that the basic elements and principles of Art, like; line, colour, form, shape, texture, etc. are incorporated. Compositions based on different 'Rasas' like, <i>Karuna, Bhakti, Vatsalya</i>, etc. may be incorporated.</p> <p>(Presentation of compositions by great masters may be shown. Reference may be taken from Internet )</p>	Water colour, Poster colour or Acrylic colour. A system with internet facility in Art room is essential	Projects may integrate with Hindi & other language subjects	Understand the versatility, usage of medium and composition of painting.
OCTOBER- 2023	15	2	<p><b><u>Design (2-Dimensional):</u></b></p> <ul style="list-style-type: none"> <li>✓ <b>Design-</b> Creating a piece of design by using a single object in black &amp; white and colour.</li> <li>✓ <b>Lettering-</b> Composing alphabets in black &amp; white and colour.</li> </ul>	Pen & ink  Poster colour		Understanding the process of creating designs with one element.

DECEMBER 2023	15	1	<p><b><u>Design (3-Dimensional):</u></b></p> <ul style="list-style-type: none"> <li>• Designing three dimensional objects in clay</li> <li>• Study and use of waste materials like, paper, sticks, straw, fibre, etc.</li> <li>• Understanding of negative and positive space.</li> <li>• Composition in clay and POP blocks.</li> </ul>	Clay and POP	Projects may integrate with Mathematics , Science and Language Subjects.	Learn different types of sculpture techniques.
		1	<p><b><u>Print Making:</u></b></p> <p>u) Anticipatory and imaginative use of gathering impressions.</p> <p>v) Fundamentals of various methods of taking prints.</p> <p>w) Observation of intrinsic tones &amp; texture of natural and man-made things.</p> <p>x) Lino cut mono print in various subjects like, landscape, still life and compositions.</p> <p>y) Techniques of taking prints in mono colour.</p> <p>z) Experience of printing on different types of surfaces.</p> <p>(A brief outline of different printing processes like, screen printing, offset printing be given to the students)</p>	Lino sheets Lino tools Printing inks	Projects may integrate with Mathematics , Science, Social Science and Language Subjects.	Understanding methods of print making as well as different types of printing processes.
DECEMBER 2023	15	2	<p><b><u>Computer Aided Designs:</u></b></p> <p>Basic Working knowledge of Computer Aided Designs on various designing software like, Corel Draw, Photoshop, Android apps etc. etc.</p> <p>(Simple designs like book covers, posters may be taught to the students. Various components of designs may be copied from internet.)</p>	Computer with internet. Installation of Photoshop & Corel Draw.	Projects may integrate with Mathematics , Computer Science and Typography	Usage of different designing software.
<b>Evaluation of Term-II</b>						
<b>Based on AE and AIL And Art portfolio evaluation process can be done</b>						

List of Ek Bharat srest Bharat pared states for AIL project( For Class IX & X ) is given below the project can be well planned in the beginning of the academic year and executed in a Time

bond manner with the team work of Subject teacher Art Teacher & Students. Students can collect research based topics other than the subject area.

Annexure – I PAIRING OF STATES AND UNION TERRITORIES FOR CBSE AE&AIL PROJECT WORK The

following engagement matrix has been adapted from EBSB programme:

- Jammu & Kashmir: Tamil Nadu
- West Bengal : Ladakh
- Punjab : Andhra Pradesh
- Himachal Pradesh : Kerala
- Uttarakhand : Karnataka
- Haryana : Telangana
- Rajasthan : Assam
- Gujarat : Chhattisgarh
- Maharashtra : Odisha
- Goa : Jharkhand
- Delhi : Sikkim
- Madhya Pradesh : Manipur & Nagaland
- Uttar Pradesh : Arunachal Pradesh & Meghalaya
- Bihar : Tripura & Mizoram
- Chandigarh : Dadra & Nagar Haveli
- Puducherry : Daman & Diu
- Lakshadweep : Andaman & Nicobar

r) Arts Integrated Activity Suggested for classes 1 to 12th

(Select/ Fill Appropriate option) Class Art Activity Subject/s Topics (Fill) (Select) (fill) (fill)

NAVODAYA VIDYALAYA SAMITI

CLASS-X

SUBJECT: COMPUTER (BASIC AND FOUNDATION)

Distribution of Marks and Periods Unit Wise

Unit No.	Unit Name	Marks	Periods	
			Theory	Practical
1.	Networking	10	05	05
2.	HTML	20	31	50
3.	Cyber Ethics	10	08	10
4.	Scratch/Python Theory	10	12	55
5.	Practicals	50	-	-
	<b>Total</b>	<b>100</b>	<b>56</b>	<b>120</b>

**Reference Books:**

Computer Applications, A Textbook for Class X - Sumita Arora

A Textbook of Computer Applications, For Class X-GBP

Month.	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests/Formative Tests/Assignment
APRIL 2023	22	10 T+ 12 P	10 MARKS	<p><b>Unit 1: Networking</b></p> <ul style="list-style-type: none"> <li>Internet: World Wide Web, web servers, web clients, web sites, web pages, web browsers, blogs, news groups, HTML, web address, e-mail address, downloading and uploading files from a remote site. Internet Protocols: TCP/IP, SMTP, POP3, HTTP, HTTPS. Remote login and file transfer protocols: SSH, SFTP, FTP, SCP, TELNET, SMTP, TCP/IP.</li> <li>Services available on the internet: information retrieval, locating sites using search engines and finding people on the net;</li> <li>Web services: chat, email, video conferencing, e-Learning, e-Banking, e-shopping, e-Reservation, e-Governance, e-Groups, social networking.</li> <li>Mobile technologies: SMS, MMS, 3G, 4G.</li> </ul>	<p>Exploring different web services on internet</p> <p>Creating email and sending receiving emails using Gmail or other email services.</p>	Practical test on topics
			20 MARKS	<p><b>Unit 2: HTML</b></p> <ul style="list-style-type: none"> <li>Introduction to web page designing using HTML: create and save an HTML document, access a web page using a web browser.</li> <li>HTML tags: html, head, title, body, (attributes: text, background, bgcolor, link, vlink, alink), br (break), hr(horizontal rule)</li> </ul>	<p>Create a webpage by using various backgrounds and background colours.</p> <p>Decorate web pages using graphical elements</p>	



JULY 2023	13	5 T+8 P		<ul style="list-style-type: none"> <li>• Inserting comments, h1...h6 (heading), p (paragraph), b (bold), i (italics), u (underline), ul (unordered list), ol (ordered list), and li (list item).</li> </ul>	Decorate web pages using graphical elements	Practical test
<b>PERIODIC TEST-01</b>						
JULY / AUGUST 2023	25	10 T+15 P		<ul style="list-style-type: none"> <li>• Description lists: dl, dt and dd. Attributes of ol (start, type), ul (type).</li> <li>• Font tags (attributes: face, size, color)</li> <li>• Insert images: img attributes: src, width, height, alt, sup (super script), sub (subscript).</li> <li>• HTML Forms: Textbox, radio buttons, checkbox, assword, list, combo box.</li> <li>• Embed audio and video in a HTML Page.</li> </ul>	<p>Create a website using several webpages.</p> <p>Students may use any open source or proprietary tool.</p> <p>Work with HTML forms: text box, radio buttons, checkbox, password, list, combo box</p> <p>Create webpages with embedded audio and video.</p>	Practical test on topics
<b>PERIODIC TEST-02</b>						

AUGUST / SEPTEMBER 2023	31	10 T+ 21 P		<ul style="list-style-type: none"> <li>• Create a table using the tags: table, tr, th,td, rowspan, colspan</li> <li>• Links: significance of linking, anchor element (Attributes: href, mailto), targets.</li> <li>• Cascading style sheets: colour, background- colour, border-style, margin, height, width, outline, font (family, style, size), align, float.</li> </ul>	<p>Use style sheets to enforce a format in an HTML page (CSS).</p> <p>Write a blog using HTML pages</p>	Practical test on topics
<b>MID TERM-1</b>						
OCTOBER / NOVEMBER 2023	18	8 T+ 10 P	10 MARKS	<p><b>Unit3: Cyber Ethics</b></p> <ul style="list-style-type: none"> <li>• Netiquettes.</li> <li>• Software licenses and the open source</li> <li>• Software movement. Intellectual property rights, plagiarism and</li> <li>• Digital Property Rights.</li> <li>• Freedom of information and the digital divide.</li> <li>• E-commerce: Privacy, fraud, secure data transmission.</li> </ul>	<p>Discussing viruses, malware, spam and Antiviruses</p> <p>Create a web page discussing plagiarism. List some reported cases of plagiarism and the consequent punishment meted out.</p>	<p>Trouble shooting with some reported cases of Plagiarism Quiz.</p> <p>Any other assessment method to assess the knowledge of the student on the topic.</p>
<b>PERIODIC TEST-03</b>						

DECEMBER 2023	22	05 T+17 P	10 MARKS	<p><b>Unit4:Scratch or Python (Theory and Practical)</b> <b>Alternative1:Scratch</b></p> <ul style="list-style-type: none"> <li>• Revision of the basics of Scratch</li> <li>• Sprite, tempo, variables, and events</li> <li>• Coordinates and conditionals</li> <li>• Drawing with iteration</li> <li>• Update variables repeatedly, iterative development, ask and answer blocks</li> <li>• Create games, animated images, stories and songs</li> </ul> <p>OR</p> <p><b>Alternative2:Python</b></p> <ul style="list-style-type: none"> <li>• Revision of Python basics Conditionals: if, if-else statements</li> <li>• Loops: for, while (e.g., sum of first 10 natural numbers) Practice simple programs</li> </ul>	<p>Create simple stories with Scratch (involving at least two objects/characters) and iteration</p> <p>OR</p> <p>write programs for finding the sum/product of first n natural numbers using Python</p>	<p>Practical assessment in Python IDLE/Pyroid /Scratch online platform/ or any other editor for Python or Scratch</p>
JANUARY 2024	23	03 T+20 P		<p><b>Unit4:Scratch or Python</b></p> <p><b>Alternative1: Practical Python Programs</b></p> <p>OR</p> <p><b>Alternative2:Practical Scratch programs</b></p>	<p>Write practical Scratch/Python programs.</p>	<p>Practical assessment in Python IDLE/Pyroid / Scratch online platform/ or any other editor for Python or Scratch</p>
<b>PERIODIC TEST-04</b>						

<b>FEBRUARY 2024</b>	<b>22</b>	<b>04 T+18 P</b>	<b>Unit4:Scratch or Python</b>  <b>Alternative1: Practical Python Programs</b>  <b>OR</b>  <b>Alternative2:Practical Scratch programs</b>   <b>REVISION</b>	Write practical Scratch/Python programs.	Practical assessment in Python IDLE/Pyroid / Scratch online platform/ or any other editor for Python or Scratch
<b>MARCH- ANNUAL EXAMINATION</b>					

**Note:**

Any Changes in the syllabus, if announced by CBSE during the academic year 2023-24, has to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website.

NAVODAYAVIDYALAYASAMITI

CLASS: X

SUBJECT:ENGLISH

Unit no	Name of the Chapter / Unit	Marks
Reading Comprehension	Conceptual understanding, decoding, analyzing, inferring, interpreting and vocabulary	20
Writing Skill & Grammar	Creative expression of an opinion ,reasoning, justifying ,illustrating, appropriacy of style and tone ,using appropriate format and fluency ,applying conventions ,using integrated structures with accuracy and fluency	20
Language Through Literature	Recalling, reasoning, appreciating, applying literary conventions, illustrating and justifying etc .Extract relevant information ,identifying the central theme and sub-theme ,understanding the writer's message and writing fluently.	40
<b>Total</b>		<b>80</b>
Internal Assessment		20
<b>Grand Total</b>		<b>100</b>

Month	No. Of Days	No. Of Periods	Lesson/Unit	Activities/ Projects/Practical Experiments To be held/Specific Assessments Tool(S) (Suggested)
April 2023	22	26	<b>First Flight(Main Text Book)</b>	
			Chapter1:A Letter To God(Prose) By G.L. Fuentes	Field Trip/Visit: Visit a Post office in your locality and collect information on different job opportunities at India Post/various services offered by Indian Postal department.
			Poem1:Dust Of Snow By Robert Frost	
			Poem2:Fire And Ice By Robert Frost	Role play: Role play based on the lesson 'A Letter To God' /A day in Post Office
			Chapter2:Nelson Mandela: Long Walk To Freedom By Nelson Rolihlahla Mandela	Debate/discussion/portfolio Assignment: 1) Apartheid/ Untouchability /other discrimination and Colonialism. 2) Indian Renaissance Leaders and their contribution 3) Indian Constitution and Judicial System-A shield against discrimination

			<p>Poem3:A Tiger In The Zoo By Leslie Norris</p>	<p>Debate/ Discussion /Portfolio Assignment: Animals in Captivity (For Zoo: Roles of Zoo-conservation ,research, education and recreation/ Against Zoo :Minimal freedom for animals-boredom ,stress and confinement for Animals etc.)</p>
			<b>Foot prints Without Feet (Supplementary Reader)</b>	
			<p>Chapter1:ATriumph Of Surgery By James Herriot</p>	<p>Multidisciplinary Teaching Style: Balanced Diet and Need for Games, Sports and Workouts(Science Teachers /Staff Nurse/Physical Education teachers)</p>
			<b>Reading Comprehension ,Writing &amp;Grammar</b>	
			<p>Grammar: Tenses (Bridge Course) Writing :Informal &amp; Formal Letter Writing</p>	
			<p>Reading Comprehension :Discursive &amp; Case Based Passages With Visual Input</p>	
			<b>Foot prints Without Feet (Supplementary Reader)</b>	
			<p>Chapter 2:TheThief's Story By Ruskin Bond</p>	<p>Role play: Role play based on the lesson' The Thief's Story/'The Midnight Visitor'.</p>
			<p>Chapter 3:The Midnight Visitor By Robert Arthur</p>	<p>Just A Minute (JAM) Activity :A usable shows great presence of mind or ability to think quickly and act wisely in a situation of danger .Give examples of such an event from your own Experience.</p>
			<b>First Flight (Main Text Book)</b>	

July2023

22

26

		Chapter3:TwoStoriesAbout Flying His First Flight By Liam O'Flaherty Black Aeroplane By Frederick Forsyth	Portfolio Assignment: Collect stories about through famous personalities were motivated by their parents /teachers / role models. (Eg. Swami Vivekananda by Sri ramakrishna Paramahamsa, Sachin Tendulkar by Ramakant Achrekare etc.)
		Poem4:HowToTell Wild Animals By Carolyn Wells	
		Poem 5:The Ball Poem By John Berryman	Portfolio Assignment: Write about precious thing you lost and how did you overcome that situation.

**PERIODIC WRITTEN TESTI-17JULY2023 to19 JULY 2023**

		<b>First Flight (Main Text Book)</b>	
		Chapter4: From The Diary of Anne Frank By Anne Frank	Portfolio Assignment / Collage:The Holocaust
		<b>Reading Comprehension ,Writing &amp; Grammar</b>	
		Grammar :Tenses ,Reported Speech Writing: Analytical Paragraph Writing Reading Comprehension: Discursive & Case Based with Visual Input	
		Poem6:A manda! By Robin Klein	Portfolio Assignment: From your Understandings of the poem 'Chivvy (Class7)'compare the poem with 'Amanda!' and prepare a write up.
August2023	23 26	<b>Foot prints Without Feet (Supplementary Reader)</b>	
		Chapter4:AQuestionOfTrust	

		By Victor Canning	StoryTellingPedagogy:Presentthestory'AQuestionOfTrust'/'Footprints Without
		Chapter5:FootprintsWithout Feet By H .G .Wells	Feet' before the class.
		<b>First Flight (Main Text Book)</b>	
		Chapter5:TheHundred Dresses-I Chapter6:The Hundred Dresses-II By Eleanor Estes	ED Talk:"Appearance is deceptive" .Elicit your view with reference to the lesson' The Hundred Dresses 'in Just A Minute.
		Poem7:Animals By Walt Whitman	Power Point Presentation :Students are Asked to prepare a presentation on 'Animals' after library reference ,internet search eliciting their intelligence, loyalty, their mistreatment ,What their role is in the stability of the world we live in'?

**PERIODICWRITTENTESTII-21AUGUST2023to23AUGUST2023**

		<b>Reading Comprehension ,Writing &amp; Grammar</b>	
		Grammar: Subject-Verb Concord, Reported Speech ,Modals Writing :Notice Writing Reading Comprehension: Discursive &Case Based With Visual Input	
		<b>First Flight (Main Text Book)</b>	
		Chapter7:Glimpses Of India I. A Baker From Goa By Lucio Rodrigues	Portfolio Assignment: Collect information/ Pictures and write about any three unique and important monuments /tourist places/ festivals of India and one local monument/ tourist place /festival.
		II.Coorg By Lokesh Abrol III.Tea From Assam By Arup Kumar Dutta	Field Trip/Visit: Prepare an Itinerary of your visit to a heritage site of India you visited as a part of Field Trip /Family Tour.
		Poem8:TheTrees	Poster Making: Make a poster, creating awareness on the importance of Trees/ Environment in association with Special Day

September  
2023  
24  
28



			By Adrienne Rich	Celebration like Earth Day, Sadbhavana Divas, International Wetlands Day.
			Chapter8:MijbilTheOtter byGavinMaxwell	
			Poem9:Fog byCarlSandburg	Art Integration :Draw /paint a beautiful natural scenery.
			<b>Foot prints Without Feet (Supplementary Reader)</b>	
			Chapter6: The Making Of A Scientist By Robert W .Peterson	Inspire Manak: Prepare a report for presenting ideas/ innovations for Inspire Manak2023-24.
Chapter7:TheNecklace By Guyde Maupassant	Role play: Role play based on the lesson 'The Necklace'.			

			<b>Reading Comprehension ,Writing &amp; Grammar</b>	
			Grammar: Finites & Non-Finites, Reported Speech Writing: Article Writing Reading Comprehension: Discursive & Case Based (With Visual Input)	

**FIRSTTERMEXAM-3OCTOBER2023to14OCTOBER2023**

October2023	6	7(Extra Classes If Necessary)	<b>First Flight (Main Text Book)</b>	
			Chapter9 :Madam Rides The Bus By Vallik kannan	A Bus/Train Ride: Write the experience/feelings about Bus/Train Ride you Experienced recently.
			Poem10:TheTale of Custard the Dragon by Ogden Nash	Art Integration :Make a comic book on the ballad' The Tale Of Custard The Dragon'.
			Chapter10:The Sermon At Benares	Story Telling Pedagogy :Present the story 'The Sermon At Benares' before the class.

			Poem11:ForAnne Gregory By William Butler Yeats	JAM(Just A Minute) Speech :Speech on the topic' Beauty is only skindeep' or 'Don't Judge a book by its cover'
November2023	12	14ExtraClassesIf Necessary)	<b>FOOT PRINTS WITHOUT FEET (SUPPLEMENTARY READER )</b>	
			Chapter8:The Hack Driver By Sinclair Lewis	
			Chapter 9:Bholi By K. A . Abbas	Power Point Presentation :Problems face by women in India and measures for Women Empowerment.
				JAM (Just A Minute) Speech: You noticed your younger brother mimicking his friend (who is disabled) and makes fun of him. Is it justifiable on his part to do such act. If not why?
			Chapter10:The Book That Saved The Earth by Claire Boiko	Role play: Role play based on the lesson 'The Book That Saved The Earth'.
				Art Integration: Make a comic book on the play' The Book That Saved The Earth'.
				Art Integration: Drawing/ Painting / Clay modeling-of the alien/alien invasion based on the chapter' The Book That Saved The Earth'.
			<b>First Flight (Main Text Book)</b>	
			Chapter11:TheProposal By Anton Chekov	Role-play: Role-play based on the lesson 'The Proposal'.
			<b>Reading Comprehension, Writing &amp; Grammar</b>	
Grammar : Active Voice & Passive Voice, Edition/Error Correction				
		Writing: Article Writing & Speech Writing Reading Comprehension: Discursive& Case Based(With Visual Input)		
December 2023	3	3	Assessment of Listening &Speaking (ALS), Revision Of Lessons, Remedial Teaching, Strategies for Improvement Of Class Average	
<b>First Pre-Board Exam- 5 December 2023 To16 December 2023</b>				

December 2023	7	8	Assessment of Listening & Speaking (ALS), Revision of Lessons, Remedial Teaching, Strategies For Improvement of Class Average.
January 2024	7	8	Assessment of Listening & Speaking (ALS), Revision of Lessons, Remedial Teaching, Strategies for Improvement of Class Average.
<b>Second Pre - Board Exam - 11 January 2024 to 23 January 2024</b>			
January 2024	6	7	Assessment of Listening & Speaking (ALS), Revision of Lessons, Remedial Teaching, Strategies For Improvement of Class Average.
Feb-March 2024			<b>Annual Exam - 15 February 2024 To 31 March 2024</b>

**Note:**

Relevant unit from work book may be taken up.

Internal Assessment as per CBSE guidelines.

Any changes in the syllabus, if announced by CBSE during the academic year 2023-24 has to be incorporated in the split-up syllabus By the concerned Teacher and Principal accordingly.

Lesson plans must be Inclusive, Experiential and Competency Based as per NEP 2020, CBSE Guidelines and NVS norms incorporating the 21st century skills, structured on the basis of Universal Design for Learning (UDL).

Refer CBSE Teacher's Manual for Pre-reading and Post- reading activities.

Conduct ESL/ASL activities based on the activities mentioned and maintain record of it for IA.

## नवोदय विद्यालय समिति

- f) प्रश्नपत्र दो खंडों 'अ' और 'ब' में विभक्त होगा।  
g) खंड 'अ' में 45 वस्तुपरक प्रश्न पूछे जायेंगे। जिनमें से केवल 40 प्रश्नों के ही उत्तर देने होंगे।  
h) खंड 'ब' में वर्णनात्मक प्रश्न पूछे जायेंगे। प्रश्नों में उचित आंतरिक विकल्प दिए जायेंगे।  
i) भारांक- 80 (वार्षिक परीक्षा) + 20 (आंतरिक परीक्षा)

निर्धारित समय- 3 घंटे

भारांक-80

कक्षा-10

विषय हिन्दी 'ब'

विषय कोड-085

परीक्षा भार विभाजन			
		विषयवस्तु	भार
		<b>खंड अ (वस्तुपरक प्रश्न)</b>	<b>40</b>
		<b>अपठित गद्यांश</b>	10
1	अ	दो अपठित गद्यांश (लगभग 200 शब्दों के) बिना किसी विकल्प के (1×5=5)+(1×5=5) (दोनों गद्यांशों में एक अंकीय पाँच-पाँच प्रश्न पूछे जाएँगे)	10
		<b>व्यावहारिक व्याकरण के आधार पर बहुविकल्पात्मक प्रश्न (1 अंक×16 प्रश्न)</b> <b>कुल 21 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।</b>	16
	1	पदबंध (5 में से 4 प्रश्न)	4
	2	रचना के आधार पर वाक्य रूपांतरण (5 में से 4 प्रश्न)	4
2	3	समास (5 में से 4 प्रश्न)	4
	4	मुहावरे (6 में से 4 प्रश्न)	4
		<b>पाठ्य पुस्तक स्पर्श भाग 2</b>	14
		<b>काव्य खंड</b>	7
		पठित पद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न (1×5=5)	5
		स्पर्श भाग 2 से निर्धारित कविताओं के आधार पर एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1×2=2)	2
		<b>गद्य खंड</b>	<b>7</b>

3	पठित गद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न। (1×5=5)	5	
	स्पर्श भाग 2 से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1×2=2)	2	
<b>खंड ब (वर्णनात्मक प्रश्न)</b>		<b>40</b>	
<b>पाठ्यपुस्तक स्पर्श भाग 2</b>		<b>12</b>	
4	1 स्पर्श गद्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। (3 अंक× 2 प्रश्न)(लगभग 60 शब्द)	06	
	2 स्पर्श काव्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। (3 अंक× 2 प्रश्न)(लगभग 60 शब्द)	06	
	<b>पूरक पाठ्य पुस्तक संचयन भाग 2</b>	<b>06</b>	
	पूरक पाठ्यपुस्तक संचयन के निर्धारित पाठों से तीन में से दो प्रश्न पूछे जाएँगे जिनका उत्तर लगभग 60 शब्दों में देना होगा। (3 अंक× 2 प्रश्न)	06	
<b>लेखन</b>		<b>22</b>	
5	1 संकेत बिंदुओं पर आधारित समसामयिक एवं व्यवहारिक जीवन से जुड़े किन्हीं तीन विषयों में से एक विषय पर लगभग 100 शब्दों में अनुच्छेद लेखन। (5 अंक× 1 प्रश्न)(विकल्प सहित)	05	
	2 अभिव्यक्ति की क्षमता पर केंद्रित औपचारिक विषयों में से किसी एक विषय पर लगभग 100 शब्दों में पत्र। (5 अंक× 1 प्रश्न)	05	
	3 व्यावहारिक जीवन से संबंधित विषयों पर आधारित लगभग 80 शब्दों में सूचना लेखन। (4 अंक× 1 प्रश्न)(विकल्प सहित)	04	
	4 विषय से संबंधित लगभग 60 शब्दों के अंतर्गत विज्ञापन लेखन। (3 अंक× 1 प्रश्न)(विकल्प सहित)	03	
	5 दिए गए विषय/शीर्षक आदि के आधार पर रचनात्मक सोच के साथ लगभग 100 शब्दों में लघुकथा लेखन। (5 अंक× 1 प्रश्न) अथवा विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन	05	
<b>कुल</b>		<b>80</b>	
	<b>आंतरिक मूल्यांकन</b>	<b>अंक</b>	<b>20</b>
<b>अ</b>	<b>सामयिक आकलन</b>	<b>5</b>	
<b>ब</b>	<b>बहुविध आकलन</b>	<b>5</b>	

स	पोर्टफोलियो	5	
द	श्रवण एवं वाचन	5	
	कुल		100

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/ टर्म 1/पुनरावृत्ति/ वार्षिक परीक्षा
अप्रैल 2023	25	22	<b>स्पर्श -2</b> गद्य खंड - बड़े भाई साहब-प्रेमचंद, -डायरी का एक पन्ना - सीताराम सेकसरिया पद्य खंड - साखी - कबीर दास <b>संचयन - 2</b> हरिहर काका - मिथलेश्वर	1. मध्यकालीन कवियों की कविताओं का संग्रह करें। 2. प्रेमचंद की अन्य पाँच कहानियों का संग्रह करें एवं पढ़ें।	
जुलाई 2023	26	25	<b>स्पर्श -2</b> गद्य खंड - तंतारा वामीरों कथा-लीलाधर मंडलोई -तीसरी कसम के शिल्पकार : शैलेन्द्र - प्रहलाद अग्रवाल पद्य खंड - पद -मीरा बाई <b>व्याकरण और रचनात्मक लेखन</b> - रचना के आधार पर वाक्य रूपान्तरण -समास -अनुच्छेद लेखन	1. मीरा बाई के पदों की तरह अन्य कवियों के पदों का संग्रह करें। 2. समास के भेदों का चार्ट बनाइए।	आवधिक परीक्षा-1

अगस्त 2023	27	26	<p><b>स्पर्श -2</b> पद्य खंड - मनुष्यता - मैथलीशरण गुप्त पर्वत प्रदेश में पावस- सुमित्रानंदन पंत गद्य खंड - अब कहाँ दूसरों के दुख से दुखी होने वाले - निदा फ़ाज़ली</p> <p><b>व्याकरण और रचनात्मक लेखन</b> -मुहावरे, अपठित गद्यांश, पद बंध</p>	<p>1. प्रकृति चित्रण संबंधी पाँच कविताओं का संग्रह करें। 2. वसु चटर्जी के निर्देशन में बनाई गई फ़िल्म तीसरी कसम देखिए।</p>	आवधिक परीक्षा-2
सितम्बर 2023	26	23	<p><b>स्पर्श -2</b> गद्य खंड -पतझर में टूटी पत्तियाँ -रवीन्द्र केलकर अ.गित्री का सोना ब. झेन की देन पद्य खंड - तोप - विरेन डंगवाल</p> <p><b>संचयन - 2</b> सपनों के से दिन - गुरु दयाल सिंह</p> <p><b>व्याकरण और रचनात्मक लेखन</b> - औपचारिक पत्र लेखन - विज्ञापन लेखन</p>	- निदा फ़ाज़ली की गज़लों का संग्रह करें।	
अक्टूबर 2023	17	6	<p><b>स्पर्श -2</b> पद्य खंड - -कर चले हम फिदा -कैफ़ी आज़मी</p> <p><b>व्याकरण और रचनात्मक लेखन</b> - सूचना लेखन</p>		सत्रांत परीक्षा-1
<b>द्वितीय सत्र</b>					
नवम्बर 2023	12	12	<p>स्पर्श -2 गद्य खंड - कारतूस -हबीब तनवीर पद्य खंड -आत्मत्राण - रवींद्रनाथ ठाकुर</p> <p>संचयन - 2 टोपी शुक्ला - राही मासूम रज़ा</p> <p><b>व्याकरण और रचनात्मक लेखन</b> -लघुकथा लेखन -औपचारिक ई-मेल लेखन</p>		

दिसम्बर 2023	26	25	पुनरावर्तन	प्री-बोर्ड-1
जनवरी 2024	20	20	पुनरावर्तन -गद्य खंड और पद्य खंड -व्याकरण और रचनात्मक लेखन	प्री-बोर्ड-2
फरवरी 2024	25	25	पुनरावर्तन -गद्य खंड और पद्य खंड -व्याकरण और रचनात्मक लेखन	
मार्च 2024	26	11	बोर्ड परीक्षा की तैयारी हेतु पठित पाठ्यक्रम का पुनरावर्तन। वार्षिक परीक्षा	

**निर्धारित पाठ्य / पूरक पुस्तकें :- एन.सी. ई.आर.टी द्वारा प्रकाशित**

- स्पर्श भाग - 1 (एन.सी.ई.आर.टी द्वारा प्रकाशित नवीनतम संस्करण)
- संचयन भाग - 1 (एन.सी.ई.आर.टी द्वारा प्रकाशित नवीनतम संस्करण)
- हिन्दी व्याकरण और रचना

**नोट :- निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे।**

स्पर्श भाग 2	c) बिहारी-दोहे (पूरा पाठ) d) महादेवी वर्मा- मधुर मधुर मेरे दीपक जल (पूरा पाठ) e) अंतोन चेखव- गिरगिट (पूरा पाठ)
संचयन भाग 2	f) पुस्तक में कोई परिवर्तन नहीं। कोई भी पाठ हटाया नहीं गया है।

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# नवोदय विद्यालय समिति

कक्षा-10

विषय-हिंदी - अ

\*सम्पूर्ण प्रश्न पत्र दो खंडों 'अ' और 'ब' में विभाजित होगा।

\*खंड 'अ' में 49 वस्तुपरक प्रश्न पूछे जाएंगे, जिनमें से 40 प्रश्न करने अनिवार्य हैं।

\*खंड 'ब' में वर्णनात्मक प्रश्न पूछे जाएंगे।

\*प्रश्नों में उचित आंतरिक विकल्प दिए जाएंगे।

कक्षा-10

विषय-हिंदी 'अ'

विषयकोड- 002

अवधि- 3 घंटे

पूर्णांक- 80

वार्षिक परीक्षा हेतु अंक भार विभाजन			
खंड 'अ'			
क्रम संख्या	विषयवस्तु	उपभार	कुल भार
1.	अपठितांश		10
	क 1. अपठित गद्यांश [विकल्प रहित] पाँच बहुविकल्पीय प्रश्न	5	
	ख 2. अपठित काव्यांश [विकल्प सहित] पाँच बहुविकल्पीय प्रश्न	5	
2.	व्याकरण के लिए निर्धारित विषयों पर विषयवस्तु का बोध, भाषिक बिन्दु संरचना आदि पर बहुविकल्पीय प्रश्न (कुल बीस में से कोई 16 प्रश्न)		16
	व्याकरण		
	1. रचना के आधार पर वाक्य -भेद ( पाँच में से चार प्रश्न)	4	
	2. वाच्य ( पाँच में से चार प्रश्न)	4	
	3. पद -परिचय ( पाँच में से चार प्रश्न)	4	
	4. अलंकार- शब्दालंकार: श्लेष अर्थालंकार: उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण ( पाँच में से चार प्रश्न)	4	
3.	पाठ्यपुस्तक क्षितिज भाग-2		
	क गद्य-खंड	7	
	1. क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर विषयवस्तु का शीर्षक चयन, ज्ञान, अवबोध और अभिव्यक्ति पर एक अंकीय पाँच बहुविकल्पीय प्रश्न	5	
	2. क्षितिज से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमता एवं ज्ञानाभिव्यक्तिपरक एक अंकीय दो बहुविकल्पीय प्रश्न	2	
	ख काव्य-खंड	7	
	1. क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर एक अंकीय पाँच बहुविकल्पीय प्रश्न	5	
	2. क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्य- बोध परखने हेतु एक अंकीय दो बहुविकल्पीय प्रश्न	2	

		खंड-ब (वर्णनात्मक प्रश्न)		
1.		पाठ्यपुस्तक क्षितिज भाग-2 एवं पूरक पाठ्यपुस्तक कृतिका भाग-2		
	क	गद्य-खंड		20
		क्षितिज से निर्धारित पाठों में से विषयवस्तु का ज्ञान, अवबोध, अभिव्यक्ति आदि परक तीन प्रश्न (विकल्प सहित) शब्द सीमा 25-30 (4 में से कोई 3 प्रश्न)	6	
	ख	काव्य-खंड		
		क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्यबोध परखने हेतु तीन प्रश्न (विकल्प सहित) शब्द सीमा 25-30 (4 में से कोई 3 प्रश्न)	6	
	ग	पूरक पाठ्यपुस्तक कृतिका भाग- 2		
		कृतिका निर्धारित पाठों पर आधारित दो प्रश्न (विकल्प सहित) शब्द सीमा 50-60 शब्द (3 में से कोई 2 प्रश्न)	8	
2.	लेखन			
	क	विभिन्न विषयों और संदर्भ पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिन्दु आधारित समसामयिक एवं व्यवहारिक जीवन से संबंधित विषय पर लगभग 120 शब्दों में एक अनुच्छेद (3 में से कोई 1)	6	20
	ख	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक एवं अनौपचारिक विषय पर लगभग 100 शब्दों में पत्र (विकल्प सहित) (5×1-5)	5	
	ग	उपलब्ध रिक्ति के लिए लगभग 80 शब्दों में स्ववृत्त लेखन अथवा विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन।	5	
	घ	दिए गए विषय से संबंधित लगभग 60 शब्दों में विज्ञापन लेखन अथवा शुभकामना, पर्व, त्योहार एवं विशेष अवसर के अनुसार संदेश लेख	4	
		कुल अंक		
		आंतरिक मूल्यांकन		20
	क	सामयिक आकलन	5	
	ख	पोर्टफोलियो	5	
	ग	बहुविध आकलन	5	
	घ	विषय समृद्धि क्रियाकलाप	5	
		कुल योग		100

## नवोदय विद्यालय समिति

कक्षा-9

विषय-

हिंदी 'अ'

माह	कार्य दिवस	कालांश	विषयवस्तु /पाठ का नाम	परियोजना कार्य
अप्रैल 2023	21	26	क्षितिज भाग-2 सूरदास के पद-सूरदास (काव्य) नेताजी का चश्मा-स्वयं प्रकाश (निबंध) कृतिका भाग-2 माता का आंचल -शिवपूजन सहाय (कृतिका) व्याकरण- रचना के आधार पर वाक्य भेद (व्याकरण) अपठित गद्यांश	भक्तिकालीन कविताओं का संग्रह वाक्य- भेद का चार्ट बनाएं। अपने बचपन की कोई घटना का वर्णन
जुलाई 2023	26	32	क्षितिज भाग-2 बालगोबिन भगत- रामवृक्षबेनीपुरी (संस्मरण) लखनवी अंदाज- यशपाल (व्यंग्य) * मानवीय करुणा की दिव्य चमक - सर्वेश्वर दयाल सक्सेना * व्याकरण- अपठित काव्यांश	

			औपचारिक व अनौपचारिक पत्र लेखन	
अगस्त 2023	26	32	क्षितिज भाग-2 राम- लक्ष्मण -परशुराम संवाद- तुलसीदास (काव्य) * सवैया और कवित्त- देव * आत्मकथ्य- जयशंकर प्रसाद (काव्य) व्याकरण- वाच्य	तुलसीदास की चौपाइयों का संग्रह एवं जीवन परिचय वाच्य- भेद का वर्गीकरण चार्ट
आवधिक परीक्षा-1				
सितंबर 2023	23	26	क्षितिज भाग-2 उत्साह, अट नहीं रही है-सूर्यकान्त त्रिपाठी निराला (काव्य) यह दंतुरित मुस्कान- फसल नागार्जुन (काव्य) *छाया मत छूना मन -गिरिजा कुमार माथुर * कृतिका भाग-2 *जॉर्जपंचम की नाक-कमलेश्वर* स्ववृत लेखन औपचारिक ई-मेल लेखन	फसलों का वार्षिक विभाजन व उनकी उत्पादन प्रक्रिया का वर्णन
आवधिक परीक्षा-2				
द्वितीय सत्र				
अक्टूबर 2023	15	20	क्षितिज भाग-2 एक कहानी यह भी-मन्नूभण्डारी (आत्मकथा) * स्त्री शिक्षा के विरोधी कुतर्कों का	स्त्रियों की वर्तमान समाज में स्थिति' इस विषय पर परिचर्चा

			<p>खण्डन- महावीर प्रसाद द्विवेदी *</p> <p>कृतिका भाग-2</p> <p>कृतिका भाग-2</p> <p>साना-साना हाथ जोडि-मधु कांकरिया (कृतिका)</p> <p>*कन्यादान- ऋतुराज*</p> <p>व्याकरण-</p> <p>पद-परिचय</p> <p>विज्ञापन</p>	<p>आयोजन</p> <p>विज्ञापन लेखन अभ्यास</p>
नवंबर 2023	15	20	<p>क्षितिज भाग-2</p> <p>नौबत खाने में इबादत-यतीन्द्र मिश्र</p> <p>संस्कृति- भदन्त आनन्द कौसल्यायन (निबन्ध)</p> <p>मैं क्यों लिखता हूँ- अज्ञेय (आत्मकथा)</p> <p>*एहीं ठैयां झुलनी हेरानी हो रामा- शिवप्रसाद मिश्र रुद्र *(कृतिका)</p> <p>अलंकार शब्दालंकार (श्लेष), अर्थालंकार (उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण)</p>	<p>अपने वर्तमान व अतीत की घटनाओं को जोड़ते हुए भविष्य निर्मित लक्ष्यों पर परिचर्चा</p>
प्रथम सत्रांत परीक्षा				
दिसंबर 2023	20	25	<p>क्षितिज भाग-2</p> <p>संगतकार- मंगलेशडबराल (काव्य)</p>	
प्री-बोर्ड- 1				
जनवरी 2024	आवश्यकतानुसार		पुनरावृत्ति विद्यार्थियों की	
प्री-बोर्ड- 2				
फरवरी 2024			सम्पूर्ण पाठ्यक्रम पुनरावृत्ति	

मार्च 2024	पुनरावृत्ति विद्यार्थियों की आवश्यकतानुसार	
वार्षिक-परीक्षा		

निर्धारित पाठ्यपुस्तकें:- एन.सी.आर.टीद्वारा प्रकाशित

- क्षितिज भाग-2
- कृतिका भाग-2

टिप्पणी –( \* ) से चिह्नित अध्याय 'केन्द्रीय माध्यमिक शिक्षा बोर्ड' के द्वारा सत्र 2022-23 के लिए हटा दिए गए थे। नए सत्र में भी बोर्ड द्वारा किया गया संसोधन ही मान्य होगा।

NAVODAYA VIDYALAYA SAMITI

CLASS: X

SUBJECT: MATHEMATICS

(Common for both Basic and Standard)

Units	Unit Name	Periods	Marks
I	NUMBER SYSTEM	15	06
II	ALGEBRA	48	20
III	COORDINATE GEOMETRY	15	06
IV	GEOMETRY	25	15
V	TRIGONOMETRY	35	12
VI	MENSURATION	24	10
VII	STATISTICS & PROBABILITY	28	11
	<b>Total</b>	<b>190</b>	<b>80</b>
	<b>Internal Assessment ----- (20 Marks)</b>		<b>20</b>
	<b>Pen Paper Test and Multiple Assessment -----(05 M + 05 M)</b>		
	<b>Portfolio ----- (05Marks)</b>		
	<b>Lab Practical (Lab Activities to be done from the prescribed books ----- (05Marks)</b>		
	<b>Note- 1) The teachers can refer NCERT Lab manual for conducting activities. 2) The teachers can take some extra periods to Complete the syllabus month wise.</b>		
	<b>Grand Total</b>		<b>100</b>

MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/ Chapter	Units/sub-units/Topics/Chapters to be covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
APRIL-2023	20	15	06	<b>UNIT-I- :NUMBER SYSTEM</b> <b>REAL NUMBERS</b> Fundamental Theorem of arithmetic-statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}, \sqrt{3}, \sqrt{5}$ etc	<b>Activity-:</b> To construct a square root spiral <b>Activity:</b> To find the square root of 13,29,73 using graph paper <b>Activity:</b> To determine the Zeroes of linear polynomial, Quadratic polynomial and cubic polynomial graphically <b>Activity:</b> To draw and observe the shape of curve when the coefficient of $x^2$ is positive and negative and its number of zeroes.	Assignment - I
		08	20 (For full Algebra Unit)	<b>UNIT II: ALGEBRA- POLYNOMIALS</b> Zeros o a polynomial. Relationship between zeros and coefficients of quadratic polynomials.		
<b>Summer Break(01.05.2023to29.06.2023)</b>						
JULY- 2023	22	15	20 (For full Algebra Unit)	<b>UNIT II: ALGEBRA</b> <b>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</b> Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically- By substitution, by elimination. Simple situational problems.	<b>Activity:</b> To verify the conditions for Consistency/in consistency for pair of linear equations in two variable by graphical method Maintain Portfolio Multiple <b>Assessment:</b> Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project/Concept mapping/mind mapping. etc	(17 JULY-19 JULY 2023 - PWT-I)
		10	06	<b>Unit III: <u>Coordinate Geometry</u></b> Review: Concepts of coordinate geometry, graphs of linear equations.	<b>Activity:</b> To verify the distance formula by graphical method.	



AUGUST 2023	23	5		<p><b>Unit III: <u>Coordinate Geometry</u></b> <b>(Continued)</b> Distance formula. Section formula (internal division)</p>	<p><b>Activity:</b> To verify Section formula</p> <p><b>Activity:</b>To verify formula for area of triangle by graphical method</p> <p><b>Activity:</b>To verify the distance formula by graphical method</p> <p><b>Activity:</b> Verification of Basic proportionality theorem</p>	Assignment-II  PWT-II (21 AUGUST-23 AUGUST 2023)
		15 (For full Geometry Unit)	<p><b>Unit IV: <u>Geometry- TRIANGLES</u></b> Definitions, examples, counter examples of similar triangles.</p> <p>1) (Prove)If a line is drawn parallel to one side of a triangle to intersect the other two side's indistinct points, other two sides are divided in the same ratio.</p> <p>2) (Motivate)If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.</p> <p>3) (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.</p> <p>4) (Motivate)If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar.</p> <p>5) (Motivate)If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar.</p>	<p><b>Activity:</b> To find the relationship between Area and sides of similar triangles</p> <p><b>Activity:</b> Verification of Pythagoras theorem By cut and paste activity(Bhaskara Method)</p> <p style="text-align: center;">Or</p> <p><b>Activity:</b> To draw the system of Similar triangles using Y shaped strips with nails</p> <p>Hence verify Thales theorem</p> <p>Maintain Portfolio Multiple Assessment:</p> <p>Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project/concept mapping/mind mapping etc</p>		

		10	12 (For full Trigonometry Unit)	<p><b><u>INTRODUCTION TO TRIGONOMETRY</u></b></p> <p>Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios which ever are defined at <math>0^\circ</math> and <math>90^\circ</math>. Values of the trigonometric ratios of <math>30^\circ</math>, <math>45^\circ</math> and <math>60^\circ</math>. Relationships between the ratios.</p>	<p><b><u>Activity:</u></b> To Draw the graph of trigonometric functions of Sin function of some angles: <math>0^\circ</math>, <math>30^\circ</math>, <math>45^\circ</math>, <math>60^\circ</math>, <math>90^\circ</math></p> <p><b><u>Activity:</u></b> To Draw the graph of trigonometric functions of Cos function for angles: <math>0^\circ</math>, <math>30^\circ</math>, <math>45^\circ</math>, <math>60^\circ</math>, <math>90^\circ</math></p> <p><b><u>Activity:</u></b> To Draw the Graph of trigonometric functions of Tan function for angles : <math>0^\circ</math>, <math>30^\circ</math>, <math>45^\circ</math>, <math>60^\circ</math>, <math>90^\circ</math></p>	
S E P T E M B E R	23	15	12 (For full Trigonometry Unit)	<p><b><u>TRIGONOMETRIC IDENTITIES</u></b></p> <p>Proof and applications of the identity <math>\sin^2 A + \cos^2 A = 1</math>. Only simple identities to be given.</p>	<p><b><u>Activity:</u></b> To find the angle of elevation / depression of the building / pole / tree by using clinometers</p>	
		12	10 (For full Mensuration Unit)	<p><b><u>Unit VI - Mensuration</u></b></p> <p><b><u>AREAS RELATED TO CIRCLES</u></b></p> <p>Area of sectors and segments of a circle. Problems based on areas and perimeter /circumference of the above said plane figures.(In calculating area of segment of a circle, problems should be restricted to central angle of <math>60^\circ</math>, <math>90^\circ</math> and <math>120^\circ</math> only.</p>	<p><b><u>Activity:</u></b> To find the area of circle by using cut and paste activity(dividing the circle into 16 part and converting into parallelogram)</p>	
		18	11 (For full Statistics & Probability Unit)	<p><b><u>Unit-VII - Statistics and Probability</u></b></p> <p><b><u>STATISTICS</u></b></p> <p>Mean median and mode of grouped data (Bimodal situation to be avoided).</p>	<p><b><u>Activity:</u></b> To draw the cumulative frequency curve of more than type and hence find Median</p> <p><b><u>Activity-</u></b> To draw a cumulative frequency curve of less than Type less than type(ogive)</p>	
2 0 2 3		TERM I EXAMINATION ( 03-10-2023 TO 14-10-2023 )				

OCTOBER - 2023	15	15	<p><b>20</b> (For full Algebra Unit)</p>	<p><b>UNIT-II: <u>ALGEBRA</u></b> <b><u>QUADRATIC EQUATIONS</u></b> Standard form of a quadratic equation <math>ax^2+bx+ c = 0</math>, (<math>a \neq 0</math>). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.</p>	<p><b><u>Activity</u></b>:-To draw the graph of quadratic polynomial and observe the shape of the curve hence find the zeroes of the quadratic equation <b><u>Activity</u></b>:- To obtain the solution of quadratic equation by completing the square geometrically.</p>
		10	<p><b>20</b> (For full Algebra Unit)</p>	<p><b>UNIT-II: <u>ALGEBRA</u></b> <b><u>ARITHMETIC PROGRESSIONS</u></b> Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first 'n"terms of A.P. and their application in solving daily life problems.</p>	<p><b><u>Activity</u></b>:-To identify the arithmetic progression in some given list of numbers(patterns) <b><u>Activity</u></b>:-To find the sum of n natural numbers <b><u>Activity</u></b>: To find the sum of the first n-even natural numbers. <b><u>Activity</u></b>: To establish a formula for the sum of first "n" terms of an Arithmetic Progression</p>
		10	<p><b>15</b> (For full Geometry Unit)</p>	<p><b>Unit IV: <u>Geometry- CIRCLES</u></b> Tangent to a circle at ,point of contact 1) (Prove) The tangent at any point of a circle is perpendicular to the radius through the point o contact. 2) (Prove) The lengths of tangents drawn from an external point to a circle are equal.</p>	<p><b><u>Activity</u></b>:- To observe the lengths of two tangents drawn from an external point to a circle are equal. <b><u>Activity</u></b>: To draw the pair of tan gents when angle of inclination between two tangents is given <b><u>Activity</u></b>:_____To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.</p>

**AUTUMN BREAK (23-10-2023 TO 15-11-2023)**

NOVEMBER 2023		10	11 (For full Statistics & Probability Unit)	<p><b>Unit VII-Statistics and Probability</b> <u>PROBABILITY</u></p> <p>Classical definition of probability. Simple problems on finding the probability of an event.</p>	<p><b>Activity-</b>To find experimental probability of units digits of telephone number listed on a page selected at random from a Telephone directory</p> <p>To determine probability of a Head or a Tail by tossing a coin maximum number of times and compare with its theoretical probability.</p>

NOVEMBER 2023	15	10	12 (For full Trigonometry Unit)	<p><b>HEIGHTS AND DISTANCES</b></p> <p>Angle of elevation, Angle of Depression Simple problems on heights and distances. Problems should not involve more than two right triangles, Angles of elevation / depression should be only 30°, 45°, and 60°.</p>	<p><b>Activity-:</b> To find experimental probability of each outcome of a Die when it is thrown a large number of times</p> <p><b>Activity-:</b> To find the angle of elevation / depression of the building / pole / tree by using clinometers</p>
		12	10 (For full Mensuration Unit)	<p><b>Unit VI - Mensuration</b></p> <p><b>SURFACE AREAS AND VOLUMES</b></p> <p>Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.</p>	<p><b>Activity-:</b>To form a cone from a sector of circle and to find the formula of a cone</p> <p><b>Activity:</b> To find the surface area of right circular (LSA and TSA) cylinder experimentally (preferably glass vessel or tumbler)</p> <p><b>Activity-:</b>To find the Relationship among Volumes of a Right circular Cone, a hemisphere, and a right circular cylinder of equal radii and equal Heights</p> <p><b>Note- The teachers can refer NCERT Lab manual for conducting activities.</b></p>

DECEMBER 2024	26	REVISION & 1 <sup>ST</sup> PRE-BOARD(5 DEC-16 DEC2023) PB-I(conducted at national level)
JANUARY 2024	27	REVISION & 2 <sup>ND</sup> PRE-BOARD (11 JAN 2024–23 JAN 2024) PB-II (conducted at RO level) REVISION-SAMPLE PAPERS PRACTICE
FEBRUARY-MARCH 2024	25+26	BOARD EXAMINATIONS AS PER CBSE (15 February to March 31,2024)

**Prescribed Books:**

- Mathematics-Text book for Class X, NCERT Publication
- Mathematics Exemplar Problems for Class X, Published by NCERT
- Laboratory Manual-Mathematics, secondary stage ,published by NCERT
- Guide lines for mathematics Laboratory in Schools, Class X-CBSE Publication

<http://www.ncert.nic.in/exemplar/labmanuals.html>

**Note:**

- a. Any Changes in the syllabus, if announced by CBSE during the academic year 2023-24, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website.
- b. The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class X, published by CBSE. Throughout the year any 10 activities shall be performed by the student from the activities given in the Lab Manual.
- c. Number of periods required for each chapter is mentioned as given in CBSE curriculum.

## NAVODAYA VIDYALAYA SAMITI

**CLASS: X**

**SUBJECT: MUSIC**

- 12) Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- 13) Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- 14) Students explore Local Folk Culture
- 15) Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concepts with a broader vision.
- 16) Students are exposed to the integration of latest technology in music.

			<b>Main-Topics and Sub -Topics to be Covered</b>	<b>Projects/Art (Performing) Integrated Pedagogy- Activities Prescribed</b>	<b>Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)</b>
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APRIL/JUNE 2023	25	03	1. Light music OR Sugam Sangeeth (Geeth, Bhajan)	<p><b>SUGGESTED ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>Discussion and demonstration of light music <b>(Interdisciplinary Approach)</b></li> <li>Language &amp; Literature: <ul style="list-style-type: none"> <li>Students are exposed to the importance of words in such compositions.</li> </ul> </li> <li>Social Science <ul style="list-style-type: none"> <li>Students get exposed to the life style of different people and their values.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Demonstration using digital resources of different musical performances.</li> <li>Project Work –</li> <li>Students are asked to prepare charts containing pictures of performers of respective styles of music.</li> </ul>
		01	2.Ghazals,	<ul style="list-style-type: none"> <li>Discussion about the music form ghazals and its poetic values <b>(Interdisciplinary Approach)</b></li> <li>Language &amp; literature <ul style="list-style-type: none"> <li>Students will get acquainted with poetic beauty of the language. History</li> <li>Students may explore the historical reference of music and its development through the mixture of different cultures.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Question Answer</li> <li>Project work – prepare a list of famous ghazal singers</li> </ul>
JULY 2023	23	03	3. Classical Dance forms of India.	<ul style="list-style-type: none"> <li>Discussion about the classical dance forms of India.</li> <li>Discussion of the integration of art, music and dance in various forms.</li> <li>Discussion about the aesthetic value of costumes used in such forms. <b>(Interdisciplinary Approach)</b></li> </ul> <p>Art &amp; Culture: Students get exposed to the different aspects of art like colour scheme, theme, emotion etc.</p> <p>Social Science: Students will get an idea about the historical importance and development of such art forms</p>	<p>Show videos of dance forms of India.</p> <p>Show videos of learning the art form &amp; preparations of costumes for the performances.</p> <p>Project Work –</p> <ul style="list-style-type: none"> <li>Students are asked to prepare a presentation of different dance forms.</li> </ul>

		01	4. Brief Introduction of Oscar award winner A, R Rahman.	<p>Discussion about life of A.R Rahman. Discuss about the adoption of technology in making music.</p> <p><b>(Interdisciplinary Approach)</b> <i>XIII</i>) Value Education Students will get an idea about the importance of aim, dream and dedication to achieve something great in life through this topic.</p>	<p>With the use of digital resources Students are shown the videos of artist's studio session, live stage shows awarding ceremony etc., Students are asked to prepare a list of musicians who have won Oscar awards.</p>
AUGUST 2023	19	02	5. Life history of Pandit. Bhimsen Joshi	<p>Discussion about the life of Pandit. Bhimsen Joshi and his contributions to Indian music.</p> <p><b>(Interdisciplinary Approach)</b></p> <p>Social Science: Students get exposed to the social life in different parts of the country.</p>	<ul style="list-style-type: none"> <li>• Use of digital resources Question and Answers</li> <li>• Project Work – Collect the pictures of famous Indian Vocalists.</li> </ul>
		02	6. Life history of Pandit Ravishankar	<p>Discussion about the life of Pandit Ravishankar and his contributions to Indian music.</p> <p><b>(Interdisciplinary Approach)</b></p> <p>Social Science: Students get exposed to the social life in different parts of the country.</p>	<ul style="list-style-type: none"> <li>• Question – Answer about the systems of music in India.</li> <li>• Preparation of a chart of Stringed instruments of India.</li> </ul>
SEPTEMBER 2023	23	02	7. Introduction to 'Audacity' a Digital Audio Workstation	<p>xx) Demonstration of software which is available as free to download (Opensource)</p> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• IT: Students get exposed to the revolutionary changes brought by IT in the field of music.</li> </ul> <p>Science: Students are exposed to the field of audio engineering and music production.</p>	<ul style="list-style-type: none"> <li>• Question - Answers</li> <li>• Students are asked to do multitrack recording, editing and mixing of audio files.</li> </ul>

OCTOBER 2023	14	02	8. A Bhajan of your choice.	<ul style="list-style-type: none"> <li>• Discussion about the song and its meaning</li> <li>• Discussion about Human values.</li> <li>• Recitation of the song by teacher followed by the students</li> </ul> <p><b>(Interdisciplinary Approach)</b> VALUE EDUCATION : Students explore human values as described in the Bhajan</p> <p>SOCIAL SCIENCE: Collect information about lives and deeds of various saints and leaders who have lived according to the values in their life and set an example.</p>	<ul style="list-style-type: none"> <li>• Vocal / Instrumental Performance</li> <li>• Simple question – Answer about Raga upon which the tune of the Bhajan is based etc.</li> </ul>
		<b>TERM I EXAM</b>			
NOVEMBER 2023	26	03	9.Voice culture and singing techniques	<ul style="list-style-type: none"> <li>• Discuss and demonstrate about the importance of voice and words in music.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>Science: Students explore the production and dynamics of sound.</p>	<p>xx) Vocal performance xxi) Students are asked to list some examples.</p>

		01	<p>10. Creating a new song for Vidyalaya with the help of language teachers</p> <ul style="list-style-type: none"> <li>• Discussion about structure of a musical composition.</li> <li>• Discussion on the importance of lyric. <b>(Interdisciplinary Approach)</b></li> </ul> <p>Language &amp; Literature: Students explore different types of songs and lyrics to evaluate its influence in human life. Value: Students will get a chance to create something new. Moreover, they will get a chance to develop the self-analytical and critical abilities.</p>	<p>15. Vocal /Instrumental performance</p> <p>16. Presentation of song on stage and digital release of the same in social media.</p>
JANUARY, FEBRUARY, MARCH 2024	<p><b>REVISION OF ALL THE TOPICS &amp; PRACTICAL EXAMS (VOCAL / INSTRUMENTAL)</b></p>			

12. As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
13. Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
14. Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.

## NAVODAYA VIDYALAYA SAMITI

**CLASS – X**

**SUBJECT: PHYSICAL EDUCATION**

Standing and Standard Instructions:

1. Morning Jogging/Warm Up Exercises/ Mass Drills /Aerobics/Yoga and Meditation
2. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
3. Inter House Competitions as per Vidyalaya Calendar of Activities
4. Holding Periodical Cross-Country Race/Walk.
5. Trekking and Hiking Activities at least once in a year
6. Showing Live Matches to Children
7. Martial Arts / Self Defence Skills through Resource Persons
8. Fit India Movement activity should be conducted as per schedule
9. Special day must be celebrated i.e., Yoga Day, National Sport Day
10. ICT to be a part of the pedagogy to make learning enjoyable and joyful

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
APRIL 2023	25	04	Jogging, Marching and Drill, Mass P.T., Calisthenics, Battery of tests, Surya Namaskar & Asanas of Supine position.	Battery of tests, Selection Trials & Intramural competition, Cluster Meet preparation	Physical Education: An integral part of education. Relationship of physical education with other disciplines of knowledge. Characteristic meaning and concept of play, benefits of play, Tournament, Knock-out, Fixture; single and double, League, single and double, combination, Regional Play.	Science – Biology Reflex action.  Activity Name: Drop and Catch drill.	Asking children to drop the reaction ball and catch.

JULY 2023	2 3 4	0 4	Jogging, Plyometric exercise training to develop explosive power. Aerobics, Pranayama and Asanas of Prone Lying Position.	Intramural Activities of Athletics and Indoor Games.	Physical activities and quality of life, meaning and concept. Benefits of physical activities to promote quality of life. Development of ethical values through physical activities. Physiological basis of physical education. Meaning and concept of physiology. Warming up and cooling down.	Science – Biology Respiration  Activity name: Pranayama	Children asked to perform pranayama activity and observe the Respiration Process.
AUGUST 2023	2 4	0 4	General Conditioning Exercise, Light Apparatus drill training to develop speed, Yogasana of sitting posture and Kriyas.	Inter-house Competition of Combative Sports and Indoor Games	History of Games and Sports, its evolution Track and Field Events- Any Two Major Games of NVS. Preparation Physical activities of women and its training.	Science – Biology Adrenaline Hormone  Activity Name: Adventure activity (or) Achieve the goal	Children asked to achieve the goal in the last critical part of the game. Ex: Batsman need six runs in one ball. Stressful situation will secrete Adrenaline Hormone (or) Any Adventurous Activity
SEPTEMBER 2023	2 6	0 4	General conditioning exercises, Interval training, Static stretching to develop flexibility, Surya namaskar and asanas of standing Posture.	Improvised skills of outdoor games and throwing events, inter house competition of outdoor games.	Systems and potentials of human body. Demonstration and administration of various physical potential tests. Methods of record maintenance and preparation of record file including Anthropometrical and physiological measurement.	Science – Physics Law of Reflection  Activity Name: Carrom Board.	Asked children to play the game of Carrom and observe the Law of Reflection.

OCTOBER 2023	07	01	Motor ability development training, proprioceptive training, battery of tests.	Battery of tests, inter house competitions, pace setting activities	Psychological basis of physical education, meaning and importance. Habit- formation of good habits, breaking bad habits. Emotions: meaning, types, training for controlling emotions.	Science – Chemistry Carbon Components  Activity Name: Anaerobic Exercise	Anaerobic Exercise
NOVEMBER 2023	13	02	Conditioning exercises, Continuous Training to develop endurance, Zumba , Yogasana : Artistic yoga and Pranayama, Meditation.	Inter-house competition of Jumping events, Indoor Games, Rope Skipping	Awards and rewards in sports recognition of various imminent sports personalities with photograph, yoga. Do's and don'ts and stress management through yoga	Science – Chemistry Chemical Reaction  Activity Name: Aerobics Dance	Aerobics Dance
DECEMBER 2023	14	02	Conditioning and general fitness exercises, training related to strength endurance, mass drill, marching band practice Pranayama and meditation.	Practice of skills and techniques of Athletic events inter house indoor activities preparation of Annual Sports.	Career avenues in the field of physical education. Career avenues in educational institutions, media fitness, industries, (Sports). Educational qualification of Physical Education, Leading institutes of Physical Education. Safety and injuries. Self-safety. Safety of equipment. Prevention of sports injuries.	Science – Chemistry Metal and Non-Metal  Activity Name: Name the sports equipment	Ask children to give the name of sports equipment as a Metal and Non –Metal.

NAVODAYA VIDYALAYA SAMITI

CLASS-X

SUBJECT: SCIENCE

Unit No	Name of the Chapter/Unit	Marks	Periods
I	Chemical Substances-Nature and Behavior Chapters (1-4)	25	42
II	World of living Chapters(6-9)	25	42
III	Natural Phenomena Chapters(10-11)	12	21
IV	Effects of Current Chapters(12-13)	13	21
V	Natural Resources Chapters(15-16)	05	8
	TOTAL	80	134
	INTERNAL ASSESMENT		
	1.Periodic Written Test (5M)	20	
	2. Multiple assessment (5M)		
	3. Portfolio (5M)		
	4. Subject enrichment activity(5M)		



MONTH	NO.OF DAYS	NO.OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESMENT TOOLS(SUGGESTED)
April/June-2023	22	12	<p><b>Natural phenomena</b></p> <p>Reflection of light by curved surfaces; Images formed by spherical mirrors, Centre of curvature, Principal axis, Principal focus, Focal length, Mirror formula (Derivation not required), Magnification , Refraction laws of refraction, Refractive index,</p> <p>Refraction of light by spherical lens image formed by spherical lens</p>	<p>Determination of the focal length of :</p> <p>i) Concave mirror</p> <p>ii) Convex lens</p> <p>by obtaining the image of a distant object.</p>
	22	12	<p>UNIT: <b>World of Living</b></p> <p>Chapter: Life Processes Living Being: Basic Concepts of Nutrition, Respiration, Transport and Excretion in Plants and Animals</p>	<p>Preparing a temporary Mount of a leaf peel to show stomata.</p>
	22	15	<p><b>Chemical Substances-Nature and Behavior</b></p> <p>UNIT-1: <b>Chemical reactions &amp; Chemical equation:</b></p> <p>Chemical reactions , Chemical equation, Balanced chemical equation, Implication of a balanced chemical equation, types of chemical reactions: Combination, decomposition, Displacement, Double displacement or precipitation. Endothermic, Exothermic reactions, Oxidation and reduction.</p>	<p>Performing and observing the following reactions and classifying them into:</p> <p>a)Combination reaction b)Decomposition reaction c)Displacement reaction d)Double displacement reaction-</p> <p>(i)Action of water on quick lime</p> <p>(ii) action of heat on ferrous sulphate crystals</p> <p>(iii) Iron nails kept in copper sulphate solution</p> <p>(iv) Reaction between sodium sulphate and barium chloride solution</p>

July-2023	18	12	<b>Natural phenomena</b> Lens formula (Derivation not required); Magnification. Power of a lens, Applications of spherical mirrors and lenses functioning of a lens in human eye, Defects of vision and their corrections ,Refraction of light through a prism, dispersion of light ,scattering of light, applications in daily life(excluding color of the sun at sunrise and sunset)	i)Tracing the path of a ray of light passing through a rectangular glass slab for Different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result,  ii)Tracing the path of a ray of light passing through a glass prism  .
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July-2023	18	12	<b>Control And Coordination in animals and plants:</b> Tropic Movements in Plants; Introduction of Plant Hormones; Control and Coordination in Animals; Nervous System; Voluntary, In Voluntary and Reflex action Control and Coordination in animals and plants ; Chemical Co-Ordination and Animal Hormones	Experimentally show that carbon dioxide is given out during respiration.
	18	12	UNIT-2 Chapter: <b>Acids, bases and salts</b> : Their definitions in terms of furnishing of H <sup>+</sup> and OH <sup>-</sup> ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required)	Studying the properties of acids and bases (HCl & NaOH) by their reaction with:  a)Litmus solution (Blue/ Red)(b)Zinc metal (c) Solid sodium carbonate
<b>Periodic Written Test-1:17 TO 19 JULY 2023</b>				
Agust-2023	22	12	<b>Effects of current:</b> Electric current, potential difference and electric current, ohms law, resistance, resistivity, factors of which the resistance of a conductor dispensations. Series and parallel combination of resistors and its applications in daily life. heating effect of electric current and its application in daily life .Electric power interrelation between P,V,I and R	Studying the dependence of potential difference (V) across a resistor on thecurrent  (I) passing through it and determine its resistance. Also plotting a graph between V and I.
	22	12	Chapter: Reproduction: Reproduction in animals and plants(asexual and sexual) Reproductive health- need and methods of family planning; Safe Sex v/s HIV/AIDS; Child bearing and women's health.	Studying (a) binary fission in Amoeba, and (b) budding in yeast with the help of prepared slides
	22	12	UNIT-2 Importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris	Finding the pH of the following samples by using pH paper / universal indicator;  (a)Dilute Hydrochloric Acid  (b)Dilute NaOH Solution  (c) Dilute Ethnic Acid Solution

				(d) Lemon Juice (e) Water (f) Dilute Hydrogen Carbonate Solution
	<b>Periodic Written Test-2: 21 TO 23 AUG 2023</b>			
<b>September-2023</b>	16	12	<p><b>Magnetic effects of current:</b></p> <p>Magnetic Field , Field lines, Field due to a current carrying conductor, Field due to a current carrying coil or Solenoid,</p>	<p>Determination of the equivalent resistance of two resistors when connected in Series and parallel</p>
	16	12	<p>Unit: World of Living</p> <p>Chapter: Heredity and Evolution: Heredity ; Mendel's contribution- Laws for inheritance of traits: Sex determination : brief introduction(Topics Excluded-evolution, evolution and Classification and evolution should not be equated with progress)</p>	
	16	12	<p>UNIT-3</p> <p>Chapter: Metals and Non-metals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds.</p> <p>Basic metallurgical processes; Corrosion and its prevention.</p> <p>UNIT-4:Carbon compounds : Covalent bonding in carbon compounds. Versatile nature of carbon . Homologous series.</p>	<p>Observing the action of Zn, Fe, Cu and Al, metals on the following salt solutions</p> <p>a)ZnSO<sub>4</sub> aq b)FeSO<sub>4</sub> aq c)CuSO<sub>4</sub> aq d)Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> aq</p> <p>Arrange Zn,Fe,Cu and Al,metals in decreasing order of reactivity based on the above result</p>

OCTOBER	TERM-1 : 3 TO 14 OCT 2023
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November-2023	23	12	<p><b>Effects of electric current :</b></p> <p>Force on current carrying conductor, Flemings left hand rule direct current, alternating current: frequency of Ac advantages of Ac over Dc, domestic electric circuits</p>	
		12	<p>Unit: Natural Resources :<b>Our Environment</b></p> <p>Chapter: Our Environment: Eco- System, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances</p>	Identification of the different parts of an embryo of a divot seed (Pea, gram or red Kidney bean)
		12	<p>UNIT-4:<b>Carbon compounds :</b></p> <p>Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkenes, and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons Chemical properties of carbon compounds (combustion, oxidation, addition, and substitution reaction). Ethanol and Ethic acid (only properties and uses), Soaps and detergents.</p>	<p>1) Study of the following properties of acetic acid (ethic acid) :</p> <p>i) odour</p> <p>ii) solubility in water</p> <p>iii) effect on litmus</p> <p>iv) Reaction with Sodium Hydrogen Carbonate</p> <p>2) Study of the comparative cleaning capacity of a sample of soap in soft and hard water.</p> <p>2) Study of the comparative cleaning capacity of a sample of soap in soft and hard water.</p>
December-2023	21	08	<p>Chapter 16: Management of Natural Resources:</p> <p>(NCERT Chapter 16) will not be assessed in the year end examination however learners may be assigned to read the chapter and encouraged to prepare a brief write up on any concept of this chapter in their portfolio. This may be internal assessment and credit may be given periodic assessment /portfolio.</p>	
<b>PRE-BOARD-1 05 TO 16 DEC 2023</b>				

January- 2024	PRE-BOARD-2 : 11 TO 23 JAN 2024
February- 2024	REVISION and Uploading of Internal Assessment in CBSE Portal
March- 2024	To be Planned as Per the CBSE Time Table for Board Examinations-2024

Distribution of chapters:					
	PWT-1	PWT-2	TERM-1	PB-1	PB-2
Chapter No.s	1,10,11,6	2,12,7	1,2,3,4, 10,11,12,13,6,7,8,9	1,2,3,4, 10,11,12,13, 6,7,8,9,15	1,2,3,4 10,11,12,13, 6,7,8,9,15
Bio	1	1	2+2=4	5	5
Che	1	1	2+2=4	4	4
Phy	2	1	3+1=4	4	4
TOT	4	3	12	13	13

NAVODAYA VIDYALAYA SAMITI

CLASS: X

SUBJECT: SOCIAL SCIENCE

SUBJECT CODE: 087

Unit No	Name of The Chapter/ unit	Marks	Periods
I	India and the Contemporary World – II	20	60
II	Contemporary India – II	20	55
III	Democratic Politics – II	20	50
IV	Understanding Economic Development	20	50
	Total	80	215
	Internal Assessment	20	05
	Grand Total	100	220

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
APRIL- JULY	36 DAYS	60 PERIODS	<p><b>Unit 1: India and the Contemporary World – II</b></p> <p><b>Section 1: Events and Processes:</b></p> <p><b>1. The Rise of Nationalism in Europe:</b> • The French Revolution and the Idea of the Nation</p> <ul style="list-style-type: none"> <li>• The Making of Nationalism in Europe</li> <li>• The Age of Revolutions: 1830-1848</li> <li>• The Making of Germany and Italy</li> <li>• Visualizing the Nation</li> <li>• Nationalism and Imperialism</li> </ul> <p><b>Unit 2: Contemporary India – II</b></p>	<p>If you were a peasant in Uttar Pradesh in 1920, how would you have responded to Gandhiji's call for Swaraj? Write a paragraph on it.</p> <p>Visit the field to identify the type/s of soil found in your locality. Discuss the factors responsible of formation of that soil.</p> <p>Visit or Invite personalities associated with local</p>

			<p><b>1. Resources and Development:</b></p> <ul style="list-style-type: none"> <li>• Concept</li> <li>• Development of Resources</li> <li>• Resource Planning - Resource Planning in India, Conservation of Resources</li> <li>• Land Resources</li> <li>• Land Utilization</li> <li>• Land Use Pattern in India</li> <li>• Land Degradation and Conservation Measures</li> <li>• Soil as a Resource - Classification of Soils, Soil Erosion and Soil Conservation (excluding Box Information on State of India's Environment)</li> </ul> <p><b>Unit 3: Democratic Politics – II</b></p> <p><b>1. Power Sharing:</b></p> <ul style="list-style-type: none"> <li>• Belgium and Sri Lanka</li> <li>• Majoritarianism in Sri Lanka</li> <li>• Accommodation in Belgium</li> <li>• Why power sharing is desirable?</li> <li>• Forms of Power Sharing</li> </ul> <p><b>2. Federalism:</b></p> <ul style="list-style-type: none"> <li>• What is Federalism?</li> <li>• What make India a Federal Country?</li> <li>• How is Federalism practiced? <ul style="list-style-type: none"> <li>• Decentralization in India</li> </ul> </li> </ul> <p><b>Unit 4: Understanding Economic Development</b></p> <p><b>1. Development:</b></p> <ul style="list-style-type: none"> <li>• What Development Promises-</li> </ul>	<p>administration and discuss the various forms of powers entrusted with them and their execution.</p> <p>Download the recent 'The World Development Report 2020' and analyse the data for further understanding of the development.</p>
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			<p>Different People, Different Goals</p> <ul style="list-style-type: none"> <li>• Income and Other Goals</li> <li>• National Development</li> <li>• How to compare different countries or states?</li> <li>• Income and other criteria</li> <li>• Public Facilities</li> <li>• Sustainability of Development</li> </ul>	
<p>Periodic Written Test-I (JULY)</p> <p><b>Assessment of Subject Enrichment Activities &amp; Note book evaluation to be done at the end of the month</b></p>				
JULY- AUG	28 DAYS	50 PERIODS	<p><b>Unit 1: India and the Contemporary World – II</b></p> <p><b>2. Nationalism in India:</b></p> <ul style="list-style-type: none"> <li>• The First World War, Khilafat and Non - Cooperation</li> <li>• Differing Strands within the Movement</li> <li>• Towards Civil Disobedience</li> <li>• The Sense of Collective Belonging</li> </ul> <p><b>2. Sectors of the Indian Economy:</b></p> <ul style="list-style-type: none"> <li>• Sectors of Economic Activities</li> <li>• Comparing the three sectors</li> <li>• Primary, Secondary and Tertiary Sectors in India</li> <li>• Division of sectors as organized and unorganized</li> </ul> <p><b>Section 2: Livelihoods, Economies and Societies:</b></p> <p>3. The Making of a Global World:</p> <ul style="list-style-type: none"> <li>• The Pre-modern world</li> </ul>	<p>Why did various classes and groups of Indians participate in the Civil Disobedience Movement? Talk to or conduct a survey on workers under different sectors in your locality for better understanding of their conditions. Sum up the findings and present in a seminar.</p> <p><b>Activity:</b> List out the forest and wildlife resources in your region and classify them under various types discussed in the chapter.</p>

			<ul style="list-style-type: none"> <li>• The Nineteenth Century (1815-1914)</li> <li>• The Inter war Economy</li> <li>• Rebuilding a World Economy: The Post-War Era</li> </ul> <p><b>Unit 2: Contemporary India – II</b></p> <p><b>2. Forest and Wildlife</b></p> <ul style="list-style-type: none"> <li>• Conservation of forest and wildlife in India</li> <li>• Types and distribution of forests and wildlife resources <ul style="list-style-type: none"> <li>• Community and Conservation</li> </ul> </li> </ul>	
Periodic Written Test-II (AUG)				
<b>Assessment of Subject Enrichment Activities &amp; Note book evaluation to be done at the end of the month</b>				
SEP- OCT	28 DAYS	50 PERIODS	<p><b>3. Water Resources:</b></p> <ul style="list-style-type: none"> <li>• Water Scarcity and The Need for Water Conservation and Management</li> <li>• Multi-Purpose River Projects and Integrated Water Resources Management</li> <li>• Rainwater Harvesting</li> </ul> <p><b>Unit 4: Understanding Economic Development</b></p> <p><b>3. Money and Credit:</b></p> <ul style="list-style-type: none"> <li>• Money as a medium of exchange</li> <li>• Modern forms of Money</li> <li>• Loan activities of Banks</li> <li>• Two different Credit situations</li> <li>• Terms of Credit</li> <li>• Formal Sector Credit in India <ul style="list-style-type: none"> <li>• Self Help Groups for the Poor</li> </ul> </li> </ul>	<p>Make a list of inter-state water disputes.</p> <p>Visit and appraise a nearby centre practicing or having a structure of rain water harvesting.</p> <p>Find a SHG in your locality and talk to them to know about their members and its functioning. .</p> <p>Make a table of Agriculture crops produced in India and present as a chart (Group Activity)</p> <p>Analyse Annual Energy Consumption in your</p>

			<p><b>Unit 2: Contemporary India – II</b></p> <p><b>4. Agriculture:</b></p> <ul style="list-style-type: none"> <li>• Types of Farming – Primitive Subsistence, Intensive Subsistence, Commercial</li> <li>• Cropping Pattern – Major Crops, Food Crops other than Grains, Non Food Crops, Technological and Institutional Reforms</li> <li>• Food Security (excluding impact of globalization on agriculture)</li> </ul> <p><b>5. Minerals and Energy Resources</b></p> <ul style="list-style-type: none"> <li>• What is a mineral?</li> <li>• Mode of occurrence of Minerals - Where are these minerals found?, Ferrous Minerals, Non-Ferrous Minerals, Non-Metallic Minerals, Rock Minerals</li> <li>• Conservation of Minerals</li> <li>• Energy Resources - Conventional Sources of Energy, Non-Conventional Sources of Energy</li> <li>• Conservation of Energy Resources</li> </ul> <p><b>Unit 3: Democratic Politics – II</b></p> <p><b>4. Gender, Religion and Caste:</b></p> <ul style="list-style-type: none"> <li>• Gender and Politics - Public/Private division, Women’s political representation</li> <li>• Religion, Communalism and Politics – Communalism,</li> </ul>	<p>Vidyalaya and suggest measures for conservation.</p> <p>.</p> <p>Debate on gender equality</p> <p>Essay on Reforms of Political parties.</p>
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			<p>Secular State (<b>excluding image on page 46, 48, 49 of NCERT Textbook</b>)</p> <p>Democratic Politics –II - reprinted edition 2021)</p> <ul style="list-style-type: none"> <li>• Caste and Politics - Caste inequalities, Caste in politics, Politics in caste</li> </ul> <p><b>6. Political Parties:</b></p> <ul style="list-style-type: none"> <li>• Why do we need Political Parties? – Meaning, Functions, Necessity</li> <li>• How many parties should we have? • National Parties</li> <li>• State Parties</li> <li>• Challenges to Political Parties • How can Parties be reformed?</li> </ul>	
<b>TERM I (OCT)</b>				
<b>Assessment of Subject Enrichment Activities &amp; Note book evaluation to be done at the end of the month</b>				
<b>OCT-NOV</b>	<b>40 DAYS</b>	<b>60 PERIODS</b>	<p><b>Unit 1: India and the Contemporary World – II</b></p> <p><b>4. The Age of Industrialization:</b></p> <ul style="list-style-type: none"> <li>• Before the Industrial Revolution</li> <li>• Hand Labour and Steam Power</li> <li>• Industrialization in the Colonies</li> <li>• Factories Come Up</li> <li>• The Peculiarities of Industrial Growth</li> <li>• Market for Goods</li> </ul> <p><b>Section 3: Everyday Life, Culture and Politics:</b></p> <p><b>5. Print Culture and the Modern World:</b></p>	<p>Select any one industry in your region and find its history. How has technology changed? Where do workers come from? How are the products advertised and marketed? Try and talk to the employers and some workers to get their views about the industry's history.</p>

			<ul style="list-style-type: none"> <li>• The First Printed Books</li> <li>• Print Comes to Europe</li> <li>• The Print Revolution and its Impact • The Reading Mania</li> <li>• The Nineteenth Century</li> <li>• India and the World of Print</li> <li>• Religious Reform and Public Debates</li> <li>• New Forms of Publication <ul style="list-style-type: none"> <li>• Print and Censorship</li> </ul> </li> </ul> <p><b>6. Manufacturing Industries:</b></p> <ul style="list-style-type: none"> <li>• Importance of Manufacturing - Industrial Location (excluding Industry Market Linkage), Agro based Industry (excluding Cotton Textiles, Jute Textiles, Sugar Industry), Mineral based Industries (excluding Iron Steel Industry, Cement Industry), Industrial Pollution and Environmental Degradation, Control of Environmental Degradation</li> </ul> <p><b>7. Life Lines of National Economy:</b></p> <ul style="list-style-type: none"> <li>• Roadways</li> <li>• Railways Pipelines</li> <li>• Waterways</li> <li>• Major Seaports</li> <li>• Airways</li> </ul>	<p><b>Activity:</b></p> <p>Imagine that you are Marco Polo. Write a letter from China to describe the world of print which you have seen there. OR You are a bookseller advertising the availability of new cheap printed books. Design a poster for your shop window.</p> <p><b>Map Work Activity:</b></p> <p>Locate and label the list of items given by the CBSE for final exam from Ch 6 &amp; 7.</p> <p>Interpretation of various cartoons given in the textbook under the chapter and write a commentary.</p> <p><b>Activity:</b></p> <p>Take some branded products that we use every day. Check which of these are produced by MNCs. List Indian companies or entrepreneurs emerged as MNCs.</p>
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			<ul style="list-style-type: none"> <li>• Communication</li> <li>• International Trade</li> <li>• Tourism as a Trade</li> </ul> <p><b>Unit 3: Democratic Politics – II</b></p> <p>7. Outcomes of Democracy:</p> <ul style="list-style-type: none"> <li>• How do we assess democracy's outcomes?</li> <li>• Accountable, responsive and legitimate government</li> <li>• Economic growth and development • Reduction of inequality and poverty • Accommodation of social diversity</li> <li>• Dignity and freedom of the citizens</li> </ul> <p><b>Unit 4: Understanding Economic Development</b></p> <p><b>4. Globalization and the Indian Economy:</b></p> <ul style="list-style-type: none"> <li>• Production across countries</li> <li>• Interlinking production across countries</li> <li>• Foreign Trade and integration of markets</li> <li>• What is Globalization?</li> <li>• Factors that have enabled Globalization</li> <li>• World Trade Organization</li> <li>• Impact of Globalization in India</li> <li>• The Struggle for a fair Globalization</li> </ul> <p><b>5. Consumer Rights: To be used only for Project</b></p> <p style="text-align: center;"><b>Work</b></p>	
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Assessment of Subject Enrichment Activities & Note book evaluation to be done at the end of the	
PRE BOARD I Dec. 2023 (Revision)	
PRE BOARD II Jan. 2024 (Revision)	
Feb. 2024 – Revision	1. <b>Every student</b> has to compulsorily undertake <b>any one project</b> on the following topics:  Consumer Awareness  <b>OR</b>  Social Issues  <b>OR</b>  Sustainable Development
Feb- March 2024 – Board Exam / Yearly Exam	

NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: AUTOMOTIVE

SUBJECT CODE: 804

Sections	Units	No. of Hour and practical	Max Marks
PART A	xxxiii. Communication Skills - III	13	5
	xxxiv. Self-Management Skills –III	07	
	xxxv. ICT Skills- III	13	
	xxxvi. Entrepreneurial Skills- III	10	5
	xxxvii. Green Skills-III	07	
	<b>TOTAL</b>		<b>50</b>
PART B	(ee) Regular Maintenance of the Engine	45	20
	(ff) Regular Maintenance of the Transmission System	20	07
	(gg) Regular maintenance of Gear	15	05
	(hh) Service of Wheel	20	05
	(ii) Regular Maintenance of Tubes and Tires	10	05
	(jj) Regular Maintenance of Brakes	20	08
	<b>TOTAL</b>		<b>130</b>
PART C	Practical	80	40
<b>GRAND TOTAL</b>		<b>260</b>	<b>100</b>

Note-The Practical should be taught during regular hours, since are part of theory classes.



MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Topics/Activities/Projects/ Practical Experiments to be Held (Suggested)
JULY	24	48	<p><b>Unit : Communication Skills</b>            Session 1 : Introduction to Communication            Session 2 : Verbal Communication            Session 3 : Non-verbal Communication            Session 4 : Pronunciation Basics            Session 5 : Communication Styles            Session 6 : Saying No            Session 7 : Writing Skills parts of speech            Session 8 : Writing Skills sentence formation            Session 9 : Greetings and Introduction            Session 10 : talking about self            Session 11 : Asking Question            Session 12 : Talking about Family            Session 13 : Describing the habits and routines            Session 14 : Asking for Direction</p> <p><b>Unit: Regular maintenance of the engine</b>            Session 1 : Inspection of Engine            Session 2 : Washing of Engine            Session 3 : Tuning of Fuel System of Engine            Session 4 : Tuning of Ignition System of Engine</p>	<p>w) Inspection of an engine.            x) Washing of an engine.            y) Tuning of an engine.            z) Tuning of the ignition system of an engine.</p>
<b>PWT I – 17th to 19th JULY</b>				
AUGUST	22	45	<p><b>Unit--: Regular maintenance of the engine</b>            Session 5 : Tuning of Engine Lubrication System            Session 6 : Tuning of Engine Cooling System            Session 7 : Tightening of Fasteners            Session 8 : Engine Tuning</p>	<ul style="list-style-type: none"> <li>• Replace the engine oil and oil filter of a car.</li> <li>• Servicing of cooling systems.</li> </ul> <p>ss) Engine Timing and engine sound test after setting.</p>

	<b>PWT II –17th to 19th JULY</b>			
<b>SEPTEMBER</b>	<b>23</b>	<b>45</b>	<p><b>Unit : Self - Management Skills</b>            Session 1: Strength and weakness Analysis            Session 2: Grooming            Session 3: Personnel Hygiene            Session 4: Team Work            Session 5: Networking Skills            Session 6: Self Motivation            Session 7: Goal Setting            Session 8: Time Management</p> <p><b>Unit : Regular Maintenance of Transmission System</b>            Session 1: Transmission System            Session 2: Clutch Maintenance and Adjustment</p> <p><b>Unit: ICT Skills</b>            Session 1 : Introduction to ICT            Session 2 : Basics Interface of Libre Office Writer            Session 3 : Saving, closing, opening and printing document.</p>	<ul style="list-style-type: none"> <li>• Servicing of the transmission system.</li> <li>• Servicing of the clutch system.</li> <li>• Adjust clutch pedal free play.</li> <li>• Overhauling of the clutch.</li> </ul>
<b>OCTOBER</b>	<b>16</b>	<b>10</b>	<p><b>Unit: ICT Skills</b>            Session 4: Formatting text in the word document.            Session 5: Checking spelling and grammar.            Session 6: Inserting lists, tables, pictures and shapes.            Session 7 : Headers, Footers and page number</p>	

			Session 8 : Tracking changes in Libre Office writer.	
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	<b>TERM-1 (03.10.2023 to14.10.2023)</b>			
<b>OCTOBER</b>	<b>OCTOBER (23.10.2023 to15.11.2023) – AUTUMN BREAK</b>			
<b>NOVEMBER</b>	13	37	<p><b>Unit : Entrepreneurship Skills</b>            Session 1 : Introduction to entrepreneurship            Session 2 : Values of entrepreneur            Session 3 : Attitude of an entrepreneur            Session 4 : Thinking like an entrepreneur            Session 5 : Coming up with a business idea            Session 6 : Understanding the market            Session 7 : Business Planning</p> <p><b>Unit : Regular Maintenance of Gear</b>            Session 1 : Lubrication of gearbox</p>	<ul style="list-style-type: none"> <li>• Replace gear and different oil.</li> <li>• Adjust gear lever free play.</li> </ul>
<b>DECEMBER</b>	25	40	<p><b>Unit : Regular Maintenance of gear</b>            Session 2: Setting up of Gearbox</p> <p><b>Unit: Green Skills</b>            Session 1 : Sectors of green economy            Session 2 : Policies in the green economy            Session 3 : Stakeholder of Green Economy            Session 4 : Government and Private agency</p> <p><b>Unit: Services of Wheel</b>            Session 1 : Importance of wheel            Session 2 : Importance of Hub greasing and bearing Play Adjustment</p>	<ul style="list-style-type: none"> <li>✓ Servicing of the wheel assembly</li> </ul>
	<b>PWT III – 7th to 9th DECEMBER</b>			

<b>JANUARY</b>	<b>21</b>	<b>35</b>	<p><b>Unit: Regular Maintenance of Tubes and tires</b> Session 1 : Tyre and Tube maintenance Session 2 : Repairing of Punctured tube</p> <p><b>Unit: Regular Maintenance of Brakes</b> Session 1 : Brakes and Maintenance Session 2 : Brakes and Adjustments</p>	<ul style="list-style-type: none"> <li>• Tire Rotation of a car.</li> <li>• Tire puncture repair.</li> <li>• Servicing of brakes system.</li> </ul>
<b>JANUARY</b>	<b>JANUARY (13.1.2024 to 18.1.2024) – WINTER BREAK</b>			
<b>FEBRUARY</b>	<b>( Revision &amp; Completion of Intern Assessment)</b>			
<b>PWT IV – 1st to 3rd FEB</b>				
<b>MARCH</b>	<b>( Revision &amp; Completion of Internal Assessment)</b>			
<b>TERM-2 (14.03.2024 to 27.03.2024 )</b>				

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NAVODAYA VIDYALAYA SAMITI

CLASS : XI

SUBJECT : BIOTECHNOLOGY

SUBJECT CODE : 045

Unit No	Name of The Chapter/ unit	Marks	Periods
1	<b>CHAPTER 1:</b> Biotechnology: An overview	5	25
2	<b>CHAPTER 1:</b> Biomolecules: Building blocks	10	25
	<b>CHAPTER 2:</b> Macromolecules: Structure & Function	10	
3	<b>CHAPTER 1:</b> Concepts of Genetics	8	28
	<b>CHAPTER 2:</b> Genes and Genomes: Structure and Function	12	
4	<b>CHAPTER 1:</b> The Basic Unit of Life	10	25
	<b>CHAPTER 2:</b> Cell Growth and Development	15	
	<b>TOTAL</b>	<b>70</b>	<b>136</b>

NAVODAYA VIDYALAYA SAMITI

CLASS-XI

SUB.: BIOTECHNOLOGY

SUB. CODE: 045

Month	No. of Days	No. of Period	Units/Subunits /Chapters/ topics/ to be covered	Details of practical/ project to be given	SPOTTERS /ACTIVITIES	Unit tests/ Assignments
APRIL 2023	23	25	<b>Unit-I Biotechnology: An overview</b> <b>Chapter 1: Biotechnology: An Overview</b> Historical Perspectives, Technology and Applications of Biotechnology, Global market and Biotech Products.	1. Preparation of buffers and pH determination		
JULY 2023	23	25	<b>Unit-II Molecules of Life 20 Marks</b> <b>Chapter Chapter1: Biomolecules Building Blocks:</b> Building Blocks of Carbohydrates - Sugars and their Derivatives, Building Blocks of Proteins - Amino Acids, Building Blocks of Lipids - Simple Fatty Acids, Glycerol and Cholesterol, Building Blocks of Nucleic Acids – Nucleotides. <b>Chapter 2: Macromolecules: Structure &amp; Function</b> Carbohydrates - The Energy Givers, Proteins - The Performers, Enzymes -The Catalysts, Lipids and Bio membranes - The Barriers, Nucleic acids - The managers	2.Sterilization techniques	aa) Test for the presence of sugar. bb) Test for the presence of protein. cc) Test for the presence of fat. dd) Detection of amino acids by using chromatography. 4. Study of the enzymatic activity of salivary amylase.	UT-1 Ass.1

AUGUST 2023	23	25	<p><b>Unit-III Genetics and Molecular Biology</b>  <b>Chapter 1: Concepts of Genetics</b>  Historical perspective, multiple alleles, linkage and crossing over, genetic mapping.</p> <p><b>Chapter 2: Genes and Genomes: Structure and Function</b>  Discovery of DNA as genetic material, DNA replication, fine structure of the genes, from gene to protein</p> <p>Transcription – The basic process, genetic code, translation, mutations,  human genetic disorders</p>	3. Preparation of bacterial growth medium	<p>Observation of Drosophila</p> <p>a. To identify the sex.</p> <p>b. To study contrasting phenotypic traits.</p> <p>c. To study the karyotype of Drosophila.</p>	UT-2 / Ass.2
SEPTEMBER 2023	23	25	<p><b>Unit-III Genetics and Molecular Biology</b>  <b>Chapter 1: Concepts of Genetics.</b>  Historical perspective, multiple alleles, linkage and crossing over, genetic mapping.</p>	4. Cell counting	<ul style="list-style-type: none"> <li>List out the multiple allelic traits in human beings.</li> <li>Study the %age of recombination of an easily identifiable trait in a colony of Drosophila.</li> </ul>	
OCTOBER 2023	16	16	<p><b>Unit-III Genetics and Molecular Biology</b>  <b>Chapter 2: Genes and Genomes: Structure and Function</b>  Discovery of DNA as genetic material, DNA replication, fine structure of the genes, from gene to protein.</p>			TERM-1
NOVEMBER 2023	13	13	<p><b>Unit-III Genetics and Molecular Biology</b>  <b>Chapter 2: Genes and Genomes: Structure and Function</b>  Transcription – The Basic Process, Genetic Code, Translation, Mutations, Human Genetic Disorders.</p>	5. Sugar Estimation using Di Nitro Salicylic Acid test (DNS test)	1. Isolation of DNA from available plant and animal material.	
DECEMBER 2023	23	24	<p><b>Unit IV: Cells and Organisms Chapter 1: The Basic Unit of Life</b>  Cell Structure and Components, Organization of Life</p>	6. Assay for amylase enzyme	1. Study of different types of plant and animal cells to compare and contrast their size, shape and structure.	UT-3 Ass.3

JANUARY 2024	24	26	<b>Unit IV: Cells &amp; Organisms</b> <b>Chapter 2: Cell Growth and Development</b> Cell Division, Cell Cycle, Cell Communication, Nutrition, Reproduction, Immune Response in animals.	7. Protein estimation by biuret method	s) Study the different stages of mitosis in onion root tip. t) Study the different stages of meiosis in flower buds (Rheo plant).	
FEBRUARY 2024	24	24	FEBRUARY 2024: Practical exam and preparation for annual exam			UT-4 Ass.4
MARCH 2024	24	22	Annual examination			



### CLASS- XI (2023-24) COURSE STRUCTURE

One Paper Time: 3 hrs.

Max. Marks 70+30

Time: 3 hrs.

UNIT	TOPIC/CHAPTER	MARKS
UNIT-1	Biotechnology: An overview	5
UNIT-2	Molecules of Life	20
UNIT-3	Genetics and Molecular Biology	20
UNIT-4	Cells and Organisms	25
	PRACTICAL	30
	<b>Total</b>	<b>100</b>

#### PRACTICALS

Note: Every student is required to do the following experiments during the academic session.

1. Preparation of buffers and pH determination
2. Sterilization techniques
3. Preparation of bacterial growth medium
4. Cell counting
5. Sugar Estimation using Di Nitro Salicylic Acid test (DNS test)
6. Assay for amylase enzyme
7. Protein estimation by biuret method

#### Scheme of Evaluation

Time: 3 Hours

Max. Marks 30

The scheme of evaluation at the end of session will be as under:

Two experiments : 20

Marks Viva on experiments : 5

Marks Practical record : 5 M

## NAVODAYA VIDYALAYA SAMITI

CLASS XI (COM.)

SUBJECT: ACCOUNTANCY

SUBJECT CODE: 055

<b>Part A: FINANCIAL ACCOUNTING-I (56Marks)</b>			
Units	Name of the Chapter/ Unit	Marks	Periods
Unit-1	Theoretical Framework	12	25
Unit 2.	Accounting Process	44	115
	Total	56	140
<b>Part B: FINANCIAL ACCOUNTING-II (24Marks)</b>			
Unit 3.	Financial Statements of Sale Proprietorship	24	60
	Total	24	60
<b>Part-C : PROJECT WORK (20 Marks)</b>			
	Project File	4	
	Written Test	12	
	Viva Voce	4	
	Total	20	20
	Grand Total (A +B+C)	100	220

**Part A: FINANCIAL ACCOUNTING - I**

Month	No. of days	No. of periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
2023 - JULY	10	15	<p><b>Introduction to Accounting</b></p> <p>Accounting- concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business.</p> <p><b>-Basic Accounting Terms-</b></p> <p>Entity, Business Transaction, Capital, Drawings, Liabilities (Non-Current and Current), Assets (Non-Current, Current); Expenditure (Capital and Revenue), Expense, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount).</p>	<p>Different assignments can be given to the students to understand the topic through role play method.</p>

**UNIT TEST-1 (17 - 19 JULY, 2023)**

**Class Test, Weekly Test, Oral Test, Mind map, case Studies.**

**Worksheets on each concept and numerical.**

**Project report on partnership (Including Various Accounts, Adjustment entries etc.)**

2023 - AUGUST	26	35	<p><b>Theory Base of Accounting</b></p> <ul style="list-style-type: none"> <li>-Fundamental accounting assumptions: GAAP: Concept</li> <li>-Basic accounting concept : Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity</li> <li>-System of Accounting. Basis of Accounting: cash basis and accrual basis</li> <li>-Accounting Standards: Applicability in Ind AS</li> <li>-Goods and Services Tax (GST): Characteristics and Advantages</li> </ul> <p><b>Unit-2: Accounting Process</b></p> <p><b>Recording of Business Transactions</b></p> <ul style="list-style-type: none"> <li>- Voucher and Transactions: Source documents and Vouchers, Preparation of Vouchers, Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit.</li> <li>- Recording of Transactions: Books of Original Entry- Journal</li> <li>-Special Purpose books: <ul style="list-style-type: none"> <li>- Cash Book: Simple, cash book with bank column and petty cash book</li> <li>-Purchases book</li> <li>-Sales book</li> <li>-Purchases return book</li> <li>-Sales return book</li> <li>-Journal proper</li> </ul> </li> </ul> <p><b>Note: Including trade discount, freight and cartage expenses for simple GST calculation</b></p>	<p>Project</p> <p>The Indian Accounting</p> <p>Standard can be drawn in chart Paper.</p>

**UNIT TEST-2 (21-23 AUGUST 2023)**

**Class Tests/ Slip Tests**

2023 - SEPTEMBER	25	35	<p><b>Ledger Posting</b></p> <p>Format, Posting from journal and subsidiary books, Balancing of accounts</p> <p><b>Bank Reconciliation Statement:</b> -Need and preparation Bank Reconciliation Statement</p> <p><b>Depreciation, Provisions and Reserves(Part)</b></p> <p>-Depreciation: Meaning, Features, Need, Causes, factors</p> <p>-Other similar terms: Depletion and Amortisation</p> <p>-Methods of Depreciation:</p> <p style="padding-left: 40px;">i. Straight Line Method (SLM)</p> <p style="padding-left: 40px;">ii. Written Down Value Method (WDV)</p> <p><b>Note: Excluding change of method</b></p> <p>Difference between SLM and WDV;</p> <p>Advantages of SLM and WDV</p> <p>Method of recording depreciation</p> <p style="padding-left: 40px;">i.) Charging to asset account</p> <p style="padding-left: 40px;">ii.) Creating provision for depreciation/accumulated depreciation account Treatment of disposal of asset</p>	<p>Project Quiz, Class Test,</p> <p>Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play</p>

TERM TEST - 1 (03-14 OCTOBER 2023)				
	30		<b>AUTUMN BREAK (OCTOBER - NOVEMBER)</b>	Project Work –Comprehensive Problems
2023 - NOVEMBER	18	18	<p><b>Depreciation, Provisions and Reserves(Part)</b></p> <p>Provisions, Reserves, Difference Between Provisions and Reserves. Types of Reserves:</p> <ul style="list-style-type: none"> <li>i) Revenue reserve</li> <li>ii) Capital reserve</li> <li>iii) General reserve</li> <li>iv) Specific reserve</li> <li>v) Secret Reserve</li> </ul> <p>Difference between capital and Revenue reserve</p>	Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play

2023 - DECEMBER	21	25	<p><b>Trial balance and Rectification of Errors</b></p> <p>Trial balance: objectives, meaning and preparation</p> <p><b>(Scope: Trial balance with balance method only)</b></p> <p>Errors: classification-errors of omission, commission, principles, and compensating their effect on Trial Balance.</p> <p>Detection and rectification of errors; (i) Errors which do not affect trial balance</p> <p>(ii) Errors which affect Trial Balance</p> <p>Preparation of suspense account.</p>	<p>Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play</p>
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**UNIT TEST - 3 (07 - 09 DECEMBER)**

**Different slip tests can be taken after teaching a particular topic.**

2024 - JANUARY	26	28	<p><b>Financial Statements(Without adjustments)</b></p> <p>Meaning, objectives and importance; Revenue and Capital Receipts;</p> <p>Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journal entry. Trading Account, Profit and Loss Account:</p> <p>Gross Profit, Operating profit and Net profit. Preparation.</p> <p>Balance Sheet: need, grouping and marshalling of assets and liabilities. Preparation</p>	<p>Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play</p>



2024 - FEBRUARY	24	35	<p><b>Financial Statements (With adjustments)</b></p> <p>Adjustments in preparation of financial statements with respect to:-</p> <p>closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, Depreciation, Bad Debts, Provision for doubtful debts, provision for discount on debtors, Abnormal loss, Goods taken for personal use/staff welfare, interest on capital and managers commission.</p> <p>Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments.</p>	<p>Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play</p>
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UNIT TEST-4 ( 01 - 03 FEBRUARY)				
2024 - MARCH	25	30	<b>REVISION OF IMPORTANT TOPICS</b>	Slip Tests / class Tests can be taken
TERM END EXAM (14-27 MARCH 2024)				

### SUGGESTED QUESTION PAPER PATTERN BY CBSE

**Accountancy (Code No. 055)**

**Class XI (2023-24) Theory: 80 Marks 3 hrs. Project: 20 Marks**

SN	Typology of Questions	Marks	Percentage
1	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
2	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	23.75%

3	<b>Analysing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
	Total	80	100%

***Note: Any change in the syllabus /design of Question paper if announced by the CBSE in the academic year 2023-24 , has to be incorporated in the split-up syllabus by the concerned teachers and Principal accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website [www.cbseacademic.nic.in](http://www.cbseacademic.nic.in)***

NAVODAYA VIDYALAYA SAMITI

CLASS: XI (SCI)

SUBJECT: BIOLOGY

SUBJECT CODE: 044

Unit No	Name of the Chapter / Unit	Marks	Periods
I	Diversity of Living Organisms	15	23
II	Structural Organisation in Plants and Animals	10	23
III	Cell: Structure and Function	15	34
IV	Plant Physiology	12	40
V	Human Physiology	18	40
	<b>Total</b>	<b>70</b>	<b>160</b>
	<b>Practical</b>	<b>30</b>	
	<b>Grand Total</b>	<b>100</b>	

PRACTICALS

Time Allowed : Three Hours

Max. Marks: 30

Evaluation Scheme		Marks
One Major Experiment Part A (Experiment No- 1,3,7,8)		5 Marks
One Minor Experiment Part A (Experiment No- 6,9,10,11,12,13)		4 Marks
Slide Preparation Part A (Experiment No- 2,4,5)		5 Marks
Spotting Part B		7 Marks
Practical Record + Viva Voce	<b>Credit to the students' work 4 Marks over the academic</b>	4 Marks

Project Record + Viva Voce	session may be given	5 Marks
<b>Total</b>		30 Marks

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held
July-2023	22	22	<p><b>Unit-I Diversity of Living Organisms</b></p> <p><b>Chapter-1: The Living World</b></p> <p>Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature.</p> <p><b>Chapter-2: Biological Classification</b></p> <p>Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids.</p> <p><b>Chapter-3: Plant Kingdom</b></p> <p>Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae.</p>	<p><b>Spotting:</b></p> <ol style="list-style-type: none"> <li>1. Study of the parts of a compound microscope.</li> <li>2. Study of the specimens/ slides/models and identification with reasons- Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.</li> </ol>

August– 2023	<p><b>Chapter-4: Animal Kingdom</b></p> <p>Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). (No live animals or specimen should be displayed.)</p> <p><b>Unit-II Structural Organization in Animals and Plants</b></p> <p><b>Chapter-5: Morphology of Flowering Plants</b></p> <p>Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family solanaceae.</p>		<p><b>Spotting:</b></p> <p>3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p> <p>4. Study and identification of different types of inflorescence (cymose and racemose).</p> <p><b>Experiment :</b></p> <p>1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted) including dissection and display of floral whorls, anther, and ovary to show the number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</p>
	23	23	<p><b>Chapter-4: Animal Kingdom</b></p> <p>Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). (No live animals or specimen should be displayed.)</p> <p><b>Spotting:</b></p> <p>3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p> <p>4. Study and identification of different types of</p>

			<p><b>Unit-II Structural Organization in Animals and Plants</b></p> <p><b>Chapter-5: Morphology of Flowering Plants</b></p> <p>Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family solanaceae.</p>	<p>inflorescence (cymose and racemose).</p> <p><b>Experiment :</b></p> <ol style="list-style-type: none"> <li>1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted) including dissection and display of floral whorls, anther, and ovary to show the number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</li> </ol>
<p><b>August–2023</b></p> <p><b>PWT2 / UT2</b></p> <p><b>21-23 August</b></p>	23	23	<p><b>Chapter-4: Animal Kingdom</b></p> <p>Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). (No live animals or specimen should be displayed.)</p> <p><b>Unit-II Structural Organization in Animals and Plants</b></p> <p><b>Chapter-5: Morphology of Flowering Plants</b></p> <p>Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family solanaceae.</p>	<p><b>Spotting:</b></p> <ol style="list-style-type: none"> <li>3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</li> <li>4. Study and identification of different types of inflorescence (cymose and racemose).</li> </ol> <p><b>Experiment :</b></p> <ol style="list-style-type: none"> <li>1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted) including dissection and display of floral whorls, anther, and ovary to show the number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</li> </ol>

September-2023	24	24	<p><b>Chapter-6: Anatomy of Flowering Plants:</b> Anatomy and functions of tissue systems in dicots and monocots.</p> <p><b>Chapter-7: Structural Organisation in Animals</b> Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.</p> <p><b>Chapter-8: Cell-The Unit of Life</b> Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p>	<p><b><u>Experiment</u></b></p> <p>2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).</p> <p>3. . Study of osmosis by potato osmometer.</p> <p>4. Study of plasmolysis in epidermal peels (e.g. Rhoeo /lilly leaves or flashy scale leaves of onion bulb).</p> <p>5. Study of distribution of stomata in the upper and lower surface of leaves</p>
October-2023	7	7	<p><b>Chapter-9: Bio Molecules</b></p> <p>Chemical constituents of living cells: bio molecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymestypes, properties, enzyme action</p>	<p><b><u>Experiment:</u></b></p> <p>6. Test for the presence of sugar, starch, proteins and fats. Detection in suitable plant and animal materials.</p>



Term-I 3-14 October			
November-2023	12	9 + 3=12	<p><b>Chapter-10: Cell Cycle and Cell Division</b></p> <p>Cell cycle, mitosis, meiosis and their significance</p> <p><b>Unit-IV Plant Physiology</b></p> <p><b>Chapter-13: Photosynthesis in Higher Plants</b></p> <p>Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; Factors affecting photosynthesis.</p>
December-2023	22	22 + 6 =28	<p><b>Chapter-14: Respiration in Plants</b></p> <p>Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.</p> <p><b>Chapter-15: Plant - Growth and Development</b></p> <p>Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of</p>

**Spotting:**

ee) Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.

**Experiment :**

7. Comparative study of the rates of transpiration in the upper and lower surface of leaves. 8. Separation of plant pigments through paper chromatography.

**Experiment:**

9. Study of the rate of respiration in flower buds /leaf tissue and germinating seeds

			<p>developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA.</p> <p><b>Unit-V Human Physiology</b></p> <p><b>Chapter-17: Breathing and Exchange of Gases</b></p> <p>Respiratory organs in animals (recall only); Respiratory system in humans; Mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders</p>	
<b>PWT 3 / UT 3 07-09 Dec</b>				
<b>January- 2024</b>	20	20	<p><b>Unit-V Human Physiology</b></p> <p><b>Chapter-18: Body Fluids and Circulation</b></p> <p>Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.</p> <p><b>Chapter-19: Excretory Products and their Elimination</b></p>	<p><b>Experiment:</b></p> <p>10. Test for presence of urea in urine. 11. Test for presence of sugar in urine.</p> <p>12. Test for presence of albumin in urine.</p> <p>13. Test for presence of bile salts in urine.</p> <p><b>Spotting:</b></p> <p>6. Study of human skeleton and different</p>

			<p>Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uraemia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.</p> <p><b>Chapter-20: Locomotion and Movement</b></p> <p>Types of movement - ciliary, flagellar, muscular; skeletal muscle- contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal system - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.</p>	<p>types of joints.</p>
February-2024	20	20	<p><b>Chapter-21: Neural Control and Coordination</b></p> <p>Neuron and nerves; Nervous system in humans -central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.</p> <p><b>Chapter-22: Chemical Coordination and Integration</b></p> <p>Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders, dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease.</p>	

			<b>Note:</b> Diseases related to all the human physiological systems to be taught in brief.	
PWT 4 / UT 4    01-03 FEBRUARY				
March-2024	<b>TERM II ANNUAL EXAM</b>			

NAVODAYA VIDYALAYA SAMITI

CLASS: - XI COMMERCE

SUBJECT: BUSINESS STUDIES (054)

THEORY EXAMINATION-80 MARKS

TIME-3HRS

PROJECT WORK -20MARKS

UNITS	TOPICS	Periods	Marks	
<b>Part A</b>	<b>FOUNDATION OF BUSINESS</b>			
1	Business, Trade and Commerce	26	16	
2	Forms of business organizations	24		
3	Public, Private and Global enterprises	18	14	
4	Business Services	18		
5	Emerging modes of Business	10	10	
6	Social Responsibility and Business Ethics	14		
TOTAL		110	40	
<b>Part B</b>	<b>FINANCE AND TRADE</b>		<b>Periods</b>	<b>Marks</b>
1	Sources of Business Finance	30	20	
2	Small Business and Entrepreneurship	16		
3	Internal Trade	30	20	
4	International Trade	14		
TOTAL		90	40	
<b>Part C</b>	<b>PROJECT WORK (ONE)</b>		30	20

**Class: XI**

**Subject: Business Studies**

<b>Month</b>	<b>No. of Days</b>	<b>No. of periods</b>	<b>Weightage of marks for the unit/Chapter</b>	<b>Units/Sub-units/ Topics/Chapters to be covered</b>	<b>Details of Activity/ Practical/ Projects to be given</b>	<b>Unit Test/ Formative Tests/ Assignment</b>
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JULY	25	26	16 (Unit 1 <sup>st</sup> and 2 <sup>nd</sup> )	<p><b>Unit. 01 – Business, Trade and Commerce</b></p> <p>History of Trade and Commerce in India: Indigenous banking system</p> <p>Role of intermediaries, Transport, Trading Communities; Merchant corporations, Major Trade Centres; Major imports and Exports, Position of Indian Sub Continent in the World Economy</p> <p>Business – meaning and characteristics</p> <p>Business, profession and employment- Concept - Objectives of business - Classification of business activities</p> <p>Industry and Commerce. Industry-types: primary, secondary, tertiary meaning and subgroups</p> <p>Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, Communication, and advertising) – meaning</p> <p>Business risk-Concept</p> <p><b>Unit. 02 - Forms of Business Organizations</b></p> <p>Sole Proprietorship-Concept, merits and limitations.</p> <p>Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners</p> <p>Hindu Undivided Family Business: Concept. Cooperative Societies-Concept, merits, and limitations.</p>	Activities/Visits/ Hands-on-learning/Projects etc. as prescribed by CBSE	Unit Test - 01 Examinations (17-19, JULY, 2023)

AUG	24	13		<p><b>Unit. 02 - Forms of Business Organizations (continuation)</b></p> <p>Company - Concept, merits and limitations;</p> <p>Types: Private, Public and One Person Company – Concept. Formation of company - stages, important documents to be used in formation of a company</p> <p>Choice of form of business organization</p>	<p>Activities/Visits/ Hands-on-learning/Projects etc. as prescribed by CBSE</p>	<p>Unit Test - 02 Examinations (21-23, AUG, 2023)</p>
		18	14 (Unit 3 <sup>rd</sup> and 4 <sup>th</sup> )	<p><b>Unit. 03 – Public , Private and Global Enterprises</b></p> <p>Public sector and private sector enterprises – Concept</p> <p>Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company.</p> <p>Global Enterprises – Feature. Public private partnership – concept</p>		
		05		<p><b>Unit. 04 – Business Services</b></p> <p>Business services – meaning and types.</p> <p>Banking: Types of bank accounts - savings, current, recurring, fixed deposit</p>		





OCT & NOV	18	25	20 <b>(Unit 7<sup>th</sup> and 8<sup>th</sup> )</b>	<b>Unit. 07 – Sources of Business Finance</b>  Concept of business finance  Owners' funds- equity shares, preferences share, retained earnings  Borrowed funds: debentures and bonds, loan from financial institution	Activities/Visits/ Hands-on-learning/Projects etc. as prescribed by CBSE	TERM - 01 EXAMINATIONS NS (03-10-2023 TO 14-10-2023)
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DEC	23	05	<p><b>Unit. 07 – Sources of Business Finance (continuation)</b></p> <p>Borrowed funds: commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD)</p>	<p>Activities/Visits/ Hands-on-learning/Projects etc. as prescribed by CBSE</p>	<p>Unit Test - 03 Examinations (07-09, DEC, 2023)</p>
		16	<p><b>Unit. 08 – Small Business and Enterprises</b></p> <p>Entrepreneurship Development (ED): Concept, Characteristics and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship</p>		
		20 <b>(Unit 9<sup>th</sup> and 10<sup>th</sup> )</b>	<p>Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act)</p> <p>3. Role of small business in India with special reference to rural areas</p> <p>Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas</p>		
		14	<p><b>Unit. 09 – Internal Trade</b></p> <p>Internal trade - meaning and types services rendered by a wholesaler and a retailer</p> <p>Types of retail-trade-Itinerant and small scale fixed shops retailers</p>		

JAN	24	16		<p><b>Unit. 09 – Internal Trade (continuation)</b></p> <p>Large scale retailers-Departmental stores, chain stores – concept</p> <p>GST (Goods and Services Tax): Concept and key-features</p>	Activities/Visits/ Hands-on-learning/Projects etc. as prescribed by CBSE	CHAPTER WISE TEST MAY CONDUCTED
		14		<p><b>Unit. 10 – International Trade</b></p> <p>1 International trade: concept and benefits</p> <p>Export trade – Meaning and procedure</p> <p>Import Trade - Meaning and procedure</p> <p>Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP)</p> <p>World Trade Organization (WTO) meaning and objectives</p>		
FEB	Unit Test - 04 Examinations (01 - 03, FEB, 2024)					
	PROJECT PREPARATION & CHAPTERWISE REVISION					
MAR	TERM - 02 Examinations (14 - 27, MAR, 2024)					

SUGGESTED QUESTION PAPER PATTERN BY CBSE  
Business Studies (Code No. 054)

Class XI (2023-24)

Theory: 80 Marks

Project: 20 Marks

SN	Typology of Questions	Marks	Percentage
01	Remembering and Understanding: Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
02	Applying: Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	19	23.75%
03	Analyzing, Evaluating and Creating: Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
	<b>Total</b>	<b>80</b>	<b>100%</b>

**NOTE:** - Any change in the syllabus, if announced by the CBSE during the academic year 2023-24, has to be incorporated in the split up syllabus by the concerned teachers accordingly. In this regard Teachers are requested to be in touch with the CBSE website.

NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: Chemistry

SUBJECT CODE: 043

Unit No	Name of The Chapter/ unit	Marks	Periods
1	Some Basic Concepts of Chemistry	7	18
2	Structure of Atom	9	20
3	Classification of Elements and Periodicity in Properties	6	12
4	Chemical Bonding and Molecular Structure	7	20
5	Chemical Thermodynamics	9	23
6	Equilibrium	7	20
7	Redox Reactions	4	9
8	Organic Chemistry: Some basic Principles and Technique	11	20
9	Hydrocarbons	10	18
	Total	70	160
	Practical Assessment	30	--
	Grand Total	100	--

**PRACTICALS**

Time Allowed: 03 Hours

Max.Marks:30

Evaluation Scheme	Marks
I. Volumetric Analysis	08 Marks
II. Salt Analysis	08 Marks
III. Content based experiment	06 Marks
IV. Record + Viva	04 Marks
V. Project + Viva	04 Marks
<b>Total</b>	<b>30 Marks</b>

MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/Chapter	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to Held/ Specific Assessment Tool(s) (Suggested)	TESTS Periodic / Term /Pre-Board/ Revision/ Annual Exam
JULY	24	18	07	<p><b>Unit 1: Some Basic Concepts of Chemistry (18 Periods)</b></p> <p>General Introduction: Importance and scope of Chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.</p> <p><b>Unit 2: Structure of Atom (20 Periods)</b></p> <p>Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shape of s, p and d orbitals,</p>	<ul style="list-style-type: none"> <li>• <b>Basic Laboratory Techniques</b></li> </ul> <p><b>(04 Periods)</b></p> <p>j) Cutting glass tube and glass rod. k) Bending a glass tube l) Drawing out a glass jet. m) Boring a cork.</p> <ul style="list-style-type: none"> <li>• Use of Chemical Balance</li> <li>• Preparation of standard solution of Oxalic Acid.</li> <li>• Preparation of standard solution of sodium carbonate.</li> </ul>	<p><b>UNIT TEST-I</b></p> <p><b>17-19 JULY 2023</b></p>
		20	09	<p>Rules for filling electrons in orbitals – Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.</p>		

AUGUST	27	12	<p><b>06</b></p> <p><b>Unit 3: Classification of elements and periodicity in properties (12 Periods)</b></p> <p>Significance of classification, brief history of the development of periodic table. Modern periodic law and the present form of periodic table, periodic trends in properties of elements – atomic radii, ionic radii, ionization enthalpy, electron gain enthalpy, electro negativity, valency, Nomenclature of elements with atomic number greater than 100.</p>	<ul style="list-style-type: none"> <li>• <b>Characterization and Purification of Chemical Substance (04 Periods)</b></li> <li>• Crystallization of an impure sample of any one of the following: alum, copper sulphate, benzoic acid.</li> <li>• Determination of melting point of an organic Compound.</li> <li>• Determination of Boiling point of an organic compound</li> <li>• Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid</li> </ul>	<p><b>UNIT TEST -II</b> <b>21-23 AUGUST-2023</b></p>
		20	<p><b>07</b></p> <p><b>Unit 4: Chemical bonding and molecular structure (20 Periods)</b></p> <p>Valence electrons, ionic bond, covalent bond: bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbital and shapes of some simple molecules, molecular orbital theory of homo nuclear diatomic molecules (Qualitative idea only), hydrogen bond.</p>		



SEPTEMBER	24	23	09	<p><b>Unit: 5 Thermodynamics (23 Periods)</b> Concept of System and types of system, surrounding, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of <math>\Delta U</math> and <math>\Delta H</math>, Hess's law of constant heat summation, enthalpies of bond dissociation, combustion, formation, atomization, sublimation, phase transformation, ionization and solution and dilution.</p>	<ul style="list-style-type: none"> <li>• Determination of strength of a given solution of hydrochloric acid by titrating it against standard solution of sodium carbonate.</li> <li>• Enthalpy of dissolutions of copper sulphate or potassium nitrate.</li> <li>• Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH)</li> </ul>	
SEPTEMBER	07	10	07	<p>Second Law of Thermodynamics. Introduction of entropy as a state function, free energy change for spontaneous and non - spontaneous process criteria for equilibrium. Third law of Thermodynamics (brief introduction)</p> <p><b>Unit 6 Equilibrium (20 Periods)</b> Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle,</p>	<ul style="list-style-type: none"> <li>• <b>Any one of the following experiments: Experiments based on pH (04 Periods)</b> g) Determination of pH of some solutions obtained from fruit juices, varied concentrations of acids, bases and salts using pH paper or universal indicator.</li> </ul>	
NOVEMBER (17-20 NOV) / OCTOBER (17-22 OCT)	21	10		<p>ionic equilibrium - ionization of acids and bases, strong and weak electrolytes, degree of ionization, concept of pH, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (With illustrative examples).</p>	<p>(ii) Comparing the pH of solutions of strong and weak acid of same concentration</p> <p>(iii) Study the pH change by common-ion in case of weak acids and weak bases.</p>	<p><b>REVISION AND TERM TEST-I</b></p> <p><b>03-14 OCTOBER 2023</b></p>

NOVEMBER	15	9	04	<p><b>Unit 7: Redox Reactions (9 Periods)</b></p> <p>Concept of oxidation and reduction, Redox reactions, oxidation number, balancing redox reactions, application of redox reactions</p>	<ul style="list-style-type: none"> <li>• <b>Salt Analysis (16 periods)</b> (Insoluble salts Should be avoided; Sufficient number of single salts should be given for analysis so that at least one cation from each group and important anions are covered)</li> </ul> <p><b>Cations-</b>  <math>\text{Pb}^{2+}</math>, <math>\text{Cu}^{2+}</math>, <math>\text{As}^{3+}</math>, <math>\text{Al}^{3+}</math>,  <math>\text{Fe}^{3+}</math>, <math>\text{Mn}^{2+}</math>, <math>\text{Ni}^{2+}</math>, <math>\text{Zn}^{2+}</math>,  <math>\text{Co}^{2+}</math>, <math>\text{Ca}^{2+}</math>, <math>\text{Sr}^{2+}</math>, <math>\text{Ba}^{2+}</math>,  <math>\text{Mg}^{2+}</math>, <math>\text{NH}_4^+</math></p> <p><b>Anions-</b>  <math>\text{CO}_3^{2-}</math>, <math>\text{S}^{2-}</math>, <math>\text{SO}_3^{2-}</math>,  <math>\text{SO}_4^{2-}</math>  <math>\text{NO}_3^-</math>, <math>\text{Cl}^-</math>, <math>\text{Br}^-</math>, <math>\text{I}^-</math>, <math>\text{PO}_4^{3-}</math>,  <math>\text{C}_2\text{O}_4^{2-}</math>, <math>\text{CH}_3\text{COO}^-</math></p>	
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DECEMBER	24	20	11	<p><b>Unit 8: Organic Chemistry - Some Basic Principles and Technique (20 Periods)</b></p> <p>General introduction, methods of qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.</p>	<ul style="list-style-type: none"> <li>• <b>Determination of Nitrogen, Sulphur, Chlorine in organic compounds</b></li> </ul>	<p><b>UNIT TEST III</b></p> <p><b>07-09</b> <b>DECEMBER</b> <b>2023</b></p>
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JANUARY (UPTO 25TH JAN)	25	18	10	<p><b>Unit 9: Hydrocarbons (18 Periods)</b></p> <p><b>Classification of Hydrocarbons Alkanes</b> - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation combustion and pyrolysis.</p> <p><b>Alkenes</b> - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions addition of hydrogen, halogen, water, hydrogen halides (Markonikov's addition and peroxide effect), ozonolysis, mechanism of electrophilic addition. <b>Alkynes</b> - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction with hydrogen, Halogens, hydrogen halides and water.</p> <p><b>Aromatic Hydrocarbons:</b> Introduction IUPAC nomenclature, benzene resonance, aromaticity, chemical reactions: nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation, mechanism of electrophilic substitution. Directive influence of a substituent in mono-substituted benzene, carcinogenicity and toxicity.</p>	<p><b>Few investigatory projects</b></p> <p>1. Study the Methods of Purification of Water. 2. Investigation of foaming capacity of different washing soaps and the effect of addition sodium carbonate. 3 Study the acidity of different samples of tea leaves 4 Determination of the rate of evaporation of different liquids. 5 Study the effect of acids and bases on the tensile strength of fibre.</p>	
FEBRUARY	24	---	---	<p style="text-align: center;"><b>REVISION AND PRE-ANNUAL EXAMINATION</b></p>	<p style="text-align: center;">-----</p>	<p style="text-align: center;"><b>UNIT TEST IV</b></p> <p style="text-align: center;"><b>01-03</b> <b>FEBRUARY</b> <b>2024</b></p> <p style="text-align: center;"><b>PRACTICAL EXAMINATION</b></p>

MARCH	26	-----	-----	Annual Examinations	-----	Annual examinations 14-27 March 2024
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*Art integrated learning must be invariably adopted for clarifying scientific concepts.*

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NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: COMPUTER SCIENCE

SUBJECT CODE: 083

Unit No	Name of The Chapter/ unit	Marks	Periods
1	Computer Systems and Organisation	10	18 T+ 2 P
2	Computational Thinking and Programming - 1	45	72 T+ 68 P
3	Society, Law and Ethics	15	20 T
	<b>Total</b>	<b>70</b>	<b>110 T+ 70 P</b>
	<b>Internal Assessment / Practical</b>	<b>30</b>	
	<b>Grand Total</b>	<b>100</b>	

MONTH	NO OF DAYS	NO OF PERIODS	WEIGHTAGE OF MARKS FOR UNIT	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)	TESTS Periodic / Term / Pre Board/ Revision/ Annual Exam
JULY	10	10T+2P	10	<b>Unit I: Computer Systems and Organisation</b> <ul style="list-style-type: none"> <li>Basic Computer Organisation: Introduction to computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB)</li> <li>Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler &amp; interpreter), application software</li> <li>Operating system (OS): functions of operating system, OS user interface</li> </ul>	Note: Exploring inside computer system in the computer lab. Record of the configuration of computer system used by the student in the computer lab	
JULY	14	16T		<ul style="list-style-type: none"> <li>Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits</li> <li>Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems.</li> </ul>		

JULY		45	<ul style="list-style-type: none"> <li>● Encoding schemes: ASCII, ISCII and UNICODE</li> </ul> <p><b>Unit II: Computational Thinking and Programming – 1</b></p> <ul style="list-style-type: none"> <li>● Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flow chart and pseudo code, decomposition</li> </ul>		UT-1
AUGUST	10	8T+4P	<p><b>Unit II: Computational Thinking and Programming – 1</b></p> <p>Familiarization with the basics of Python programming: Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and R-value, use of comments</p> <ul style="list-style-type: none"> <li>● Knowledge of data types: number (integer, floating point, complex), Boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types</li> </ul>	<p>Programming in Python :</p> <p>Print 'Hello World' Program. Programs involving simple data types Program to find absolute value, Program to Sort 3 nos.</p>	

AUGUST\SEPTEMBER		10T+6P	<p><b>Unit II: Computational Thinking and Programming – 1</b></p> <p>Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in)</p> <ul style="list-style-type: none"> <li>Expressions, statement, type conversion &amp; input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit &amp; implicit conversion), accepting data as input from the console and displaying output</li> <li>Errors: syntax errors, logical errors, runtime errors</li> <li>Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control</li> </ul>	<p>Python programs to apply different operators and types.</p> <p>Python programs using if, if.. else, if ... elif... else.</p> <p>Creating python Programs Using for and While loops as Interest calculation</p>	UT-2
SEPTEMBER	39	18T+14P	<p>● Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number</p> <p>● Iterative statements: for loop, range function, while loop, flowcharts, and break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number etc.</p> <p><b>Unit II: Computational Thinking and Programming – 1</b></p> <ul style="list-style-type: none"> <li>Strings: introduction, indexing, string operations (concatenation, repetition, membership &amp; slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(),rstrip(), strip(), replace(), join(), partition(), split()</li> </ul>	<p>Program to calculate factorial of given no., Generation of Fibonacci series etc.</p> <p>Implement String Functions using python program</p>	
OCTOBER	<b>TERM-1 EXAMINATION</b>				
OCT/NOV	<b>AUTUMN BREAK</b>				



OCTOBER/NOVEMBER	22	13T+13P	<p><b>Unit II: Computational Thinking and Programming – 1</b></p> <ul style="list-style-type: none"> <li>• Lists: introduction, indexing, list operations (concatenation, repetition, membership &amp; slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists</li> </ul>	Different python Programs to implement List	UT-3
DECEMBER	16	9T+10P	<ul style="list-style-type: none"> <li>• Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership &amp; slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple</li> </ul>	Different python Programs to implement Tuples related methods	
DECEMBER/JANUARY	23	16T+14P	<p><b>Unit II: Computational Thinking and Programming – 1</b></p> <ul style="list-style-type: none"> <li>• Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy();</li> <li>• Introduction to Python modules: Importing module using 'import &lt;module&gt;' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode)</li> </ul> <p><b>Unit III: Society, Law and Ethics</b></p> <ul style="list-style-type: none"> <li>• Digital Footprints</li> <li>• Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes</li> </ul> <p><b>Unit III: Society, Law and Ethics</b></p> <ul style="list-style-type: none"> <li>• Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software's and licensing (Creative Commons, GPL and Apache)</li> <li>• Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime</li> </ul>	Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them and Different python Programs to Implement dictionary and related methods.  Generate random number using random module and implement different random functions.	UT-4

<b>FEBURARY</b>	<b>22</b>	<b>10T+7P</b>	<ul style="list-style-type: none"> <li>● Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying.</li> <li>● Safely accessing web sites: malware, viruses, Trojans, adware</li> <li>● E-waste management: proper disposal of used electronic gadgets</li> <li>● Indian Information Technology Act (IT Act)</li> <li>● Technology &amp; Society: Gender and disability issues while teaching and using computers</li> </ul> <p style="text-align: center;"><b>INVESTIGATORY PROJECT (PRACTICAL)</b></p>		
<b>MARCH</b>	<b>13</b>	<b>Revision</b>			
<b>ANNUAL EXAMINATION</b>					
<b>NOTE: T STANDS FOR THEORY PERIODS AND P STANDS FOR PRACTICAL PERIODS</b>					

**Practical**

S.NO.	Unit Name	Marks
<b>Lab Test (12 marks)</b>		
1	Python program (60% logic + 20% documentation + 20% code quality)	12
<b>Report File + Viva (10 marks)</b>		
2	Report file: Minimum 20 Python programs	7
	Viva voce (based on the report file)	3
3	Project (that uses most of the concepts that have been learnt) (See CS-XII for the rules regarding the projects)	8

**5. Suggested Practical List**

**Python Programming**

- Input a welcome message and display it.
- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.
- Generate the following patterns using nested loop.
- Write a program to input the value of x and n and print the sum of the following series:
- $1+x+x^2+x^3+x^4+\dots+x^n$
- $1-x+x^2-x^3+x^4+\dots+x^n$
- $x - x^2 + x^3 - x^4 + \dots+x^n$
- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.

- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Input a list of numbers and find the smallest and largest number from the list.
- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have scored marks above 75.

#### 6. Suggested Reading Material

(अ) NCERT Textbook for COMPUTER SCIENCE (Class XI)

(इ) Support Materials on the CBSE website.

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**SPLIT-UP SYLLABUS CLASS 11**

**CLASS: 11**

**SUBJECT: ECONOMICS**

**SUBJECT CODE: 030**

<b>Units</b>		<b>Marks</b>	<b>Periods</b>
<b>Part A</b>	<b>Statistics for Economics</b>		
	Introduction		10
	Collection, Organisation and Presentation of Data	15	30
	Statistical Tools and Interpretation	25	50
		<b>40</b>	<b>90</b>
<b>Part B</b>	<b>Introductory Micro Economics</b>		
	Introduction	04	10
	Consumer's Equilibrium and Demand	15	40
	Producer Behaviour and Supply	15	35
	Forms of Market and Price Determination under Perfect Competition with simple applications	06	25
		<b>40</b>	<b>110</b>
	<b>Theory Paper (Total)</b>	<b>80</b>	<b>200</b>
<b>Part C</b>	<b>Project Work</b>	20	20
	<b>Grand Total</b>	<b>100</b>	

PART A: STATISTICS FOR ECONOMICS(40 MARKS)						
MONTH	NO OF DAYS	NO OF PERIODS	Weightage of marks for the Unit /Chapter	Units/Sub units/Topics/Chapters to be covered	Details of Activity/Practical/ Projects to be given	Unit test/ Formative test/ Assignment
July ,2023	26	34	15	<p><b>Unit 1: Introduction</b></p> <p>What is Economics?</p> <p>Meaning, Scope, Functions of Statistics</p> <p>Importance of Statistics in Economics</p> <p><b>Unit 2:</b></p> <p><b>Collection, Organisation and Presentation of data</b></p> <p><b>Collection of data</b> - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation.</p> <p><b>Organization of Data:</b></p> <p>Meaning and types of variables; Frequency Distribution</p> <p><b>Presentation of Data:</b> Tabular Presentation and Diagrammatic Presentation of Data: (i)Geometric forms (bar diagrams and pie diagrams),</p>	<p><b>Activity Based Teaching</b></p> <p>Preparation of a Questionnaire by different groups of students related to</p> <p>11- spending habits of JNV students,</p> <p>12- Drop out of students from class VI to class VIII</p> <p>13- Environmental Awareness etc</p>	<p>UNIT TEST - 1</p> <p>ASSIGNMENT - 1</p> <p>ORAL TEST - 1</p>

AUGUST ,2023	25	32	25	<p>(ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph).</p> <p><b>Unit:3</b></p> <p><b>Statistical Tools and Interpretation</b></p> <p>(For all the numerical problems and solutions, the appropriate economic interpretation may be attempted. This means, the students need to solve the problems and provide interpretation for the results derived.)</p> <p><b>Measures of Central Tendency-</b> Arithmetic Mean, Median and Mode</p> <p><b>Correlation:</b> Meaning and properties, Scatter diagram; Measures of correlation – Karl Pearson’s method (two variables ungrouped data), Spearman’s rank correlation.</p>	<p><b>Activity Based Teaching:</b></p> <p>Construction of Bar diagram on Student strength of different class on the basis of Sex, Category etc.</p> <p>Calculation of Modal Shoes Size of a Particular Class,</p> <p>Construction of Time series graph on the basis of no. of Registration of Candidates in JNVST in last five years.</p>	<p><b>UNIT</b></p> <p><b>TEST-2</b></p> <p><b>Assignment -2</b></p> <p><b>Oral test - 2</b></p> <p><b>(Selection of Topic in Project work)</b></p>
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SEPTEMBER, 2023	26	34	04	<p><b>Introduction to Index</b></p> <p><b>Numbers-</b> meaning, types- wholesale price index, Consumer price Index and index of industrial production, uses of index numbers; inflation and index numbers</p> <p><b>Unit-4: Introduction</b></p> <p>Meaning of microeconomics and macroeconomics; positive and normative economics</p> <p>What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.</p>	<p>Case Based Questions on different types of Correlation, Rank Correlation</p> <p>Assertion and Reason types of Questions based on Correlation, Index Numbers</p> <p>Calculation of inflation rate</p>	
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**PART B:**  
**INTRODUCTORY MICRO ECONOMICS (40 MARKS)**

OCTOBER   NOVEMBER, 2023	32	30	15	<p><b>Unit-5: Consumer's Equilibrium and Demand</b></p> <p>Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p>Indifference curve analysis of Consumer's equilibrium-the Consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, Movement along and shifts in the demand curve;</p>	<p>Project Work:</p> <p>1.Effect on PPC due to various government policies</p> <p>2.Opportunity Cost as an Economic Tool (taking real life situations)</p> <p><b>Activity based Teaching:</b></p> <p>Individual Demand &amp; Market Demand Schedule</p>	<p>TERM-1 EXAMINATION</p> <p>Syllabus: Unit 1 to Unit 3</p> <p><b>Project data collection and review by the teacher)</b></p>
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<p>DECEMBER, 2023</p>	<p>26</p>	<p>36</p>	<p>15</p>	<p>Price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage- change method and total expenditure method.</p> <p><b>Unit 6: Producer Behavior and Supply</b></p> <p>Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product.</p> <p>Returns to a Factor</p> <p>Cost: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationships. -</p> <p>Revenue: total, average and marginal revenue - meaning and their relationship.</p>	<p>Case study questions and competitive based questions</p>	<p>Analysis and interpretation project data</p> <p><b>UNIT TEST -3</b></p> <p><b>ASSIGNMENT - 3</b></p> <p><b>ORAL -3</b></p>
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<p style="text-align: center;">JANUARY, 2024</p>	<p style="text-align: center;">25</p>	<p style="text-align: center;">34</p>	<p style="text-align: center;">06</p>	<p>Producer's equilibrium-meaning and its conditions in terms of marginal revenue- marginal cost. Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.</p> <p><b>Unit 7: Forms of Market and Price Determination under Perfect Competition with simple application</b></p> <p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. Simple Applications of Demand and Supply: Price ceiling, price floor.</p>	<p>Assertion and Reason types of Questions on Producer's equilibrium.</p> <p>Numerical Questions on Elasticity of Supply</p> <p><b>Project Work:</b> Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)</p>	
<p style="text-align: center;">FEBRUARY, 2024</p>	<p style="text-align: center;">24</p>			<p>(Completion of project work review by the teacher)</p> <p>Revision of important concepts from Examination point of view &amp; Practice Test</p>		<p>UNIT TEST - 4 ASSIGNMENT -4 ORAL -4</p>
<p style="text-align: center;">MARCH, 2024</p>	<p><b>ANNUAL/ 2<sup>nd</sup> TERM EXAMINATION</b></p>					

### PART - C PROJECT

Marking scheme of the Project:

S. No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 Marks

(३) Learners will complete only ONE project from different topics prescribed by the CBSE.

(३) Project should be of 3,500-4,000 words (excluding diagrams and graphs), preferably hand-written.

List of Projects ( Class XI)	
5- Effect on PPC due to various government policies	6- Invisible Hand (Adam Smith)
7- Opportunity Cost as an Economic Tool (taking real life situations)	8- Effect of Price Change on a Substitute Good (Taking prices from real life visiting local market)
9- Effect on equilibrium Prices in Local Market (taking real life situation or recent news)	10- Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
11- Solar Energy, a Cost-Effective Comparison with Conventional Energy Sources	12- Bumper Production- Boon or Bane for the Farmer
13- Any other newspaper article and its evaluation on basis of economic principles	14- Any other topic

Prescribed Books:

1. Introductory Micro Economics: NCERT
2. Statistics for Economics: NCERT

NAVODAYA VIDYALAYA SAMITI

CLASS:XI

SUBJECT:ENGLISH CORE

SUBJECTCODE:301

Unit No	Name of The Chapter/unit	Marks
01	Reading Skills	26
02	Creative Writing Skills	23
03	Literature Text Book and Supplementary reading text	31
	Total	80
01	Internal Assessment	
	6) Listening	05
	7) Speaking	05
	8) Project work	10
	<b>Grand Total</b>	<b>100</b>

MONTH	NOOFDAYS	NOOFDAYS	Main Topic and Sub-Topics to be Covered		Activities/Projects/ Practical Experiments to be Held/Specific Assessment Tool(s)(Suggested)
			Hornbill/ Snapshots	Reading, Grammar & Advance Writing Skills	
JULY 2023	30	24	6) The Portrait of a Lady (Prose) 7) A Photograph (Poem)  1 <sup>st</sup> Unit Test 17 to 19 July. 2023	Short Writing Task- Classified Advertisements	1. Collecting Ads and displaying in the classrooms 2. Students may be instructed to analyse the lesson and decipher the theme of the lesson. Organise the class to form pairs. Provide the students with chits based on the content of the lesson. Give the students 10 minutes to interpret the topic and present. Summarise and share the feedback too. 3. Prepare a 'Thankyou' card for you and mother /grandfather and mention one of her/ his characteristic traits that inspire you the most.
A	25	21	1. The Summer of The Beautiful White Horse (Prose) 2. We're not Afraid to Die .....If we can be together (Prose) 3. Discovering Tut: the saga Continues (Prose)	1. Short Writing Task -Poster. 2. Unseen Passage to assess comprehension, interpretation inference and vocabulary. (Factual, descriptive or literary) 3. Unseen Passage: Case –based passage with Verbal / Visual inputs like statistical data, chart etc.	1) Practice of ALS 2) Collecting posters and displaying in Classrooms 3) Class magazine on the life, traits, festivals, art and Culture of a tribe: The students can work on the following to give a multi Cultural picture of the tribes in India as Gond, Bhil, Khasi, Munda Angami etc. Find more about it and Create an art integrated project. 4) Listening skills practice test.

			2nd Unit Test :21-23August 2023	3. Grammar -Practice of Questions on Gap filling (Tenses, Clauses)	
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SEPTEMBER2023	28	23	<p>1. The Laburnum Top (Poem)</p> <ul style="list-style-type: none"> <li>The Address (Prose)</li> </ul>	<ul style="list-style-type: none"> <li>Long Compositions: <ul style="list-style-type: none"> <li>a. Speech Writing.</li> <li>b. Debate Writing.</li> </ul> </li> <li>Grammar :Questions on re-ordering / Transformation of sentences</li> </ul>	<p>17) Presentation of speeches by students both oral &amp; written</p> <p>18) Read the diary of Lena Mukhina who struggled to fight starvation and an internal battle of isolation.</p> <p>19) Collect quotes and pictures of World wars, The students may be asked to add more phrases indicating ideas of ensuring peace in the world.</p>
			<ul style="list-style-type: none"> <li>The Voice of the Rain(Poem)</li> <li>Mother's Day(Play)</li> </ul>	<p>3.Note Making &amp; Summarization</p>	<ul style="list-style-type: none"> <li>Topics for assessment of speaking skills to be assigned to students.</li> <li>Fastest reading contest may be organized.</li> <li>Ask the students to write a poem on natural phenomena.</li> <li>The Students may be asked to find out experiments In recycling that help in environmental conservation.</li> </ul>
<b>Autumn Break (23.10.2023 to15.11.2023)</b>					
Term-01(03rdOCT.To14thOCT.2023)					
OCTOBER./NOVEMBER2023.	26	20	<ul style="list-style-type: none"> <li>Childhood(Poem)</li> <li>Birth(Prose)</li> </ul>	<p>Practice on</p> <ul style="list-style-type: none"> <li>Classified Advertisement</li> <li>Transformation of sentence.</li> </ul>	<p>1)Group discussion on the following issues that has provoked controversies and affected the lives of people-</p> <ul style="list-style-type: none"> <li>cyberbullying</li> <li>Union common civil code</li> <li>Gender discrimination etc.</li> </ul> <p>2. Write a brief note on one of your childhood experience (good or bad) and present the same in the class.</p> <p>Story-Telling Competition</p>
DECEMBER2023	25	21	<ul style="list-style-type: none"> <li>The Adventure</li> <li>Silk Road(Prose)</li> </ul> <p>3rdUnitTest7to9 DEC.2023</p>	<p>Comprehension of Unseen Passages(Revision)</p>	<ul style="list-style-type: none"> <li>Project work to be assigned.</li> <li>The documentary film on the Mount Kailash may be shown and may be asked to write a brief note on it.</li> <li>The Students may be asked to write About the journey that they have undertaken.</li> </ul>

WINTER BREAK(13.01.2024to18.01.2024)					
JANUARY.2024	23	20	Father to Son (Poem)	Note Making and Summarization (Revision)	<ul style="list-style-type: none"> <li>• Conversation Cards/ Abbreviation flash cards can be used to teach classified ads. Students to create their own ads based on advertising technique they have learnt.</li> <li>• Organise the Story–Telling Competition</li> <li>• Create a dialogue between father and so non generation gap (dialogue may be Written by students)</li> </ul>
FEBRUARY.2024	25	21	The Tale of Melon City 4thUnitTest01-03Feb2024		XIII) Submission of Project. XIV) ALS to be conducted.
MARCH2024			Revision 02 <sup>nd</sup> to14th March2024		
<b>ANNUAL EXAMINATION 14<sup>TH</sup> MARCH TO 27<sup>TH</sup> MARCH 2024</b>					

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NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: GEOGRAPHY

SUB.CODE: 029

Sl. No.	NAME OF THE TEXTBOOKS/ UNITS/CHAPTERS	ALLOTTED MARKS	NUMBER OF PERIODS
1	Fundamentals of Physical Geography	30	85
2	India- Physical Environment	30	85
3	Practical Work in Geography – Part I	25+3+2= 30	40
4	Map Work from Fundamentals of Physical Geography	5	5
5	Map work from India –Physical Environment	5	5
	Total	100 Marks	220

Month	No. of days	No. of Periods	Main topic and subtopics to be covered	Activities/ projects/ practical	UTs
JULY	22 Days	23 Periods	<u>Fundamentals of Physical Geography.</u> <u>Unit 1</u> 1 Geography as a Discipline <u>Unit II</u> 2The Origin and Evolution of the Earth	<u>Practical work in Geography 1</u> Introduction to Maps <u>Activities</u>	UNIT TEST 1 (17/7/2023 TO 19/7/2023)

			<p><u>India – Physical Environment.</u></p> <p><u>Unit 1</u></p> <p>1 India — Location</p>		
AUGUST	26 Days	39 Periods	<p><u>Fundamentals of Physical Geography.</u></p> <p><u>Unit II</u></p> <p>3 Interior of the Earth</p> <p>4 Distribution of Oceans and Continents</p> <p><u>India – Physical Environment.</u></p> <p><u>Unit II</u></p> <p>2 Structure and Physiography</p>	<p><u>Practical work in Geography 1</u></p> <p>Map Scale</p> <p><u>Activities</u></p>	<p>UNIT TEST 2</p> <p>(21/8/2023 TO 23/8/2023)</p>
SEPTEMBER	26 Days	39 Periods	<p><u>Fundamentals of Physical Geography.</u></p> <p><u>Unit III</u></p> <p>5 Minerals and Rocks - Deleted</p> <p>6 Geomorphic Processes</p> <p>7 Landforms and their Evolution</p> <p><u>UNIT IV</u></p> <p>8 Composition and Structure of Atmosphere</p> <p><u>India – Physical Environment.</u></p> <p><u>Unit II</u></p> <p>3 Drainage System</p>	<p><u>Practical work in Geography 1</u></p> <p>Latitude, longitude and time</p> <p><u>Activities</u></p>	

OCTOBER	17Days	37 Periods	<u>India – Physical Environment.</u>  <u>Unit III</u>  4 Climate		First Terminal Examination (03/10/2023 TO 14/10/2023)
First Terminal Examination (03/10/2023 TO 14/10/2023)					
OCTOBER/NOVEMBER	13 Days Or As per Autumn break	20 Periods	<u>Fundamentals of Physical Geography.</u>  <u>Unit IV</u>  9 Solar Radiation, Heat Balance and Temperature  10 Atmospheric Circulation and Weather Systems	<u>Activities</u>  Assignment/ project works	
DECEMBER	25 Days	37 Periods	<u>Fundamentals of Physical Geography.</u>  <u>Unit IV</u>  11 Water in the Atmosphere 12 World Climate and Climate Change  <u>India – Physical Environment.</u>  <u>Unit III</u>  5 Natural Vegetation	<u>Practical work in Geography 1</u>  Map Projections	UNIT TEST 3  (07/12/2023 TO 9/12/2023)

JANUARY	20 Days Or As per Autumn break	30 Periods	<u>Fundamentals of Physical Geography.</u>  <u>Unit V</u>  13 Water (Oceans) 14 Movements of Ocean Water  <u>India – Physical Environment.</u>  <u>Unit III</u>  6 Soils - Deleted  <u>Unit IV</u>  7 Natural Hazards and Disasters	<u>Practical work in Geography 1</u>  Topographical Maps.	<u>Map work:</u> Location of Biosphere reserves and major forest types
FEBRUARY	13 Days Or As per Autumn break	20 Periods	<u>Fundamentals of Physical Geography.</u>  <u>Unit VI</u>  15 Life on the Earth - Deleted  16 Biodiversity and Conservation	<u>Practical work in Geography 1</u>  Introduction to Remote sensing	UNIT TEST 4  (01/02/2024 TO 3/2/2024)
MARCH			TERM END EXAMINATION 2024 (14/03/2024 TO 27/03/2024)		

SUGGESTED CLASS ROOM ACTIVITIES: -

- GROUP DISCUSSION OR DEBATE
- MAP PRACTICE
- GRAPH AND DATA INTERPRETATION
- FOCUS ON LOCAL AREA RESOURCES & ENVIRONMENT
- OTHER RELEVANT ACTIVITIES

***Note: Any changes in the syllabus, if announced by CBSE during the academic year 2023-24, have to be incorporated into the split-up syllabus by the concerned teachers and Principal accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website. Art integrated activities must be integrated with the teaching-learning process.***

NAVODAYA VIDYALAYA SAMITI

CLASS: 11

SUBJECT: हिन्दी

SUBJECT CODE: 302

इकाई सं	इकाई / पाठ का नाम	उप-भारांक	भारांक
<b>खंड अ ( वस्तुपरक प्रश्न )</b>			
1.	<b>अपठित गद्यांश/पद्यांश:</b> <ul style="list-style-type: none"><li>• एक अपठित गद्यांश (अधिकतम 300 शब्दों का ) (1 अंक x 10 प्रश्न)</li><li>• दो अपठित पद्यांशों में से कोई एक पद्यांश ( अधिकतम 150 शब्दों का) (1 अंक x 5 प्रश्न)</li></ul>	10 5	15
2.	पाठ्य पुस्तक <b>अभिव्यक्ति और माध्यम</b> की इकाई एक से पाठ सांख्या 1 तथा 2 पर आधारित । xxi) बहुविकल्पात्मक प्रश्न (1 अंक x 5 प्रश्न )	5	5
3.	<b>पाठ्य पुस्तक आरोह भाग -1</b> से (i)बहुविकल्पात्मक प्रश्न <ul style="list-style-type: none"><li>• पठित काव्यांश पर पाँच बहुविकल्पी प्रश्न ( 1 अंक x 05 प्रश्न )</li><li>• पठित गद्यांश पर पाँच बहुविकल्पी प्रश्न ( 1 अंक x 05 प्रश्न )</li></ul>	5 5	10
4.	<b>पूरक पाठ्य पुस्तक वितान भाग -1</b> से बहुविकल्पी प्रश्न <ul style="list-style-type: none"><li>• पठित पाठों पर दस बहुविकल्पी प्रश्न ( 1 अंक x 10 प्रश्न )</li></ul>	10	10
<b>खंड-ब ( वर्णनात्मक प्रश्न )</b>			

5.	पाठ्य पुस्तक, अभिव्यक्ति और माध्यम से सृजनात्मक लेखन और व्यावहारिक लेखन पाठ संख्या 1 (जनसांचार माध्यम), 2 (पत्रकारिता के विविध आयाम), 9 (डायरी लेखन की कला), 10 (कथा-पटकथा), 14 (कार्यालयी लेखन और प्रक्रिया), 15 (स्व-वृत्त लेखन और रोज़गार संबंधी आवेदन पत्र) तथा 16 (कोश- एक परिचय) पर आधारित  (i) दिये गए चार अप्रत्याशित विषयों से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेखन (5 अंक x 1 प्रश्न )	5	
	<ul style="list-style-type: none"> <li>औपचारिक पत्र लेखन ( 5 अंक x 1 प्रश्न ) ( विकल्प सहित )</li> <li>डायरी लेखन, कथा- पटकथा विषयों पर लेखन पर आधारित दो प्रश्न ( 3 अंक x 2 प्रश्न ) (विकल्पसहित) (लगभग 60 शब्दों में )</li> <li>स्ववृत्त लेखन और रोज़गार संबंधी आवेदन पत्र तथा शब्दकोश, सन्दर्भ ग्रंथों की उपयोगी विधि और परिचय पर आधारित तीन में से दो प्रश्न ( 2 अंक x 2 प्रश्न ) (विकल्पसहित) (लगभग 40 शब्दों में )</li> </ul>	5 6 4	20
6.	पाठ्य पुस्तक आरोह भाग-1 <ul style="list-style-type: none"> <li>काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2 अंक x 2 प्रश्न )</li> <li>गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2अंक x 2 प्रश्न )</li> </ul>	6 4 6 4	20
7.	xxii) श्रवण एवं वाचन xxiii) परियोजना कार्य	10 10	20
	<b>कुल</b>	100	100

### प्रस्तावित पुस्तकें

- आरोह भाग -1, एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित
- वितान भाग -1, एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित
- अभिव्यक्ति और माध्यम एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित

नोट: वर्ष २०२२-२३ के पाठ्यक्रम में निम्नलिखित पाठ हटाए गए हैं :

आरो भाग – 1 :

काव्य खंड : कबीर ( पद – २ ) – संतों देखत जग बौराना, मीरा (पद – २ ) – पग घुँघरू बाँध मीरा नाची ।

रामनरेश त्रिपाठी – पथिक, सुमित्रानंदन पंत – वे आँखें ।

गद्य खंड : कृष्णनाथ – स्पीति में बारिश, सैयद हैदर राज़ा – आत्मा का ताप ।

### पाठ्यक्रम विभाजन – कक्षा ग्यारहवी – हिंदी आधार ( सत्र 2023-24 )

माह	कार्यदिवस	कालांश	पाठ / उप-पाठ का नाम			क्रिया -कलाप / परियोजना कार्य
			आरोह भाग –एक	वितान भाग – एक	अभिव्यक्ति और माध्यम / रचनात्मक लेखन	
जुलाई, 2023	20	24	गद्य खंड: 1. नमक का दरोगा-प्रेमचंद पद्य खंड 2. हम तौ एक एक करि जानां-कबीर  प्रथम इकाई परीक्षा	भारतीय गायिकाओ में बेजोड़ : लता मांगेशकर-कुमार गंधर्व	अपठित गद्यांश अपठित पद्यांश	अन्य संत कवियों के ईश्वर सम्बन्धी विचारों पर परिचर्चा
प्रथम इकाई परीक्षा						



अगस्त, 2023	26	30	<p>गद्य खंड: 17. मियां नसीरुद्दीन – कृष्णा सोबती 18. अपू के साथ ढाई साल – सत्यजित राय पद्य खंड 11. मेरे तो गिरिधर गोपाल दूसरो न कोई- मीराबाई</p>	<p>भारतीय गायिकाओ में बेजोड़ : लता मांगेशकर-कुमार गंधर्व</p>	<p>1-जनसंचार माध्यम 2- पत्रकारिता के विविध आयाम 3-औपचारिक पत्र लेखन</p>	<p>संगीत शिक्षक से चर्चा कर चित्रपट संगीत व शास्त्रीय संगीत में अंतर सूचीबद्ध करना</p>
<b>द्वितीय इकाई परीक्षा</b>						
सितंबर, 2023	25	30	<p>गद्य खंड : : 1.विदाई संभाषण – बाल मुकुंद गुप्त पद्य खंड 1.घर की याद – भवानी प्रसाद मिश्र</p>	<p>राजस्थान की रजत बूँदें – अनुपम मिश्र</p>	<p>रचनात्मक लेखन</p>	<p>अंग्रेजी शासन के दौरान भारतीयों पर हुए अत्याचार ---परिचर्चा।</p>
अक्टूबर, 2023	26	30	<p><b>पुनरावृत्ति</b> गद्य खंड: (i) गलता लोहा- शेखर जोशी पद्य खंड (i)चंपा काले काले अच्छर नहीं चीन्हती – त्रिलोचन</p>	<p>राजस्थान की रजत बूँदें – अनुपम मिश्र</p>	<p>1.कथा - पटकथा 2.डायरी लेखन</p>	<p>प्रकृति को सन्देश वाहक के रूप में व्यक्त करवाली कुछ कविताओं का संकलन ।</p>

प्रथम सत्रांत परीक्षा						
नवंबर, 2023	26	30	गद्य खंड: 1. रजनी – मन्नू भंडारी पद्य खंड : गज़ल- दुष्यंत कुमार	आलो- आंधारि (बेबी हलदार)	कार्यालयी लेखन और प्रक्रिया	कार्यालयी लेखन और प्रक्रिया में प्रयुक्त होने वाले प्रपत्रों की जानकारी प्राप्त करना
दिसंबर 2023	18	20	<b>पुनरावृत्ति</b> गद्य खंड: जामुन का पेड (कृश्रचंदर) <b>तृतीय इकाई परीक्षा</b>	आलो- आंधारि (बेबी हलदार)	स्व-वृत्त ( बयोडेटा ) लेखन और रोजगार संबंधी आवेदन पत्र ।	आज़ादी के आन्दोलन में प्रयुक्त एवं प्रचलित नारों का संकलन ।  हिन्दी साहित्य के प्रसिद्ध डायरी लेखन के उदाहरणों का संकलन।
जनवरी, 2024	20	24	गद्य खंड: 12. भारत माता – जवाहरलाल नेहरू पद्य खंड 10. हे भूख, मत मचल-अक्क महादेवी 11. से मेरे जूही के फूल-अक्क महादेवी	भारतीय कलाएं	कोश- एक परिचय एवं संदर्भ ग्रन्थों की उपयोगी विधि और परिचय	पुस्तकालय में उपलब्ध विभिन्न प्रकार के शब्दकोशों की सूची बनाना

फरवरी, 2024	24	30	<p>पद्यखंड: 1. सबसे खतरनाक -अवतार सिंह पाश 2. आओ मिलकर बचाएं – निर्मला पुतुल</p> <p>वार्षिक परीक्षा को मद्देनज़र रखते हुए पूर्व पठितांश की पुनरावृत्ति ।</p>	पूर्व पठितांश की पुनरावृत्ति	संक्षिप्त प्रश्नोत्तर
	<b>चतुर्थ इकाई परीक्षा</b>				
मार्च, 2024	24			पुनरावृत्ति वार्षिक परीक्षा	

12. यह पाठ्यक्रम विभाजन सी बी एस ई द्वारा प्रकाशित 2022-23 पाठ्यक्रम पर आधारित है । सी बी एस ई द्वारा 2023-24 पाठ्यक्रम प्रकाशित होने पर तदनुसार आवश्यक संशोधन अपेक्षित है।

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XI**

**SUBJECT: HISTORY**

**SUBJECT CODE: 027**

Unit No.	Name of The Chapter/ unit	Marks	Periods
INTRODUCTION	Introduction to World History		4
Section-I	Early Societies		
	Introduction		4
2	Writing and City Life	10	20
Section-II	Empires		
	Introduction		4
3	An empire across three continents	10	20
5	Nomadic Empires	10	20
Section-III	Changing Traditions		
	Introduction		4
6	The Three Orders	10	20
7	Changing Cultural Traditions	10	20
Section-IV	Paths to Modernization		
	Introduction		4
10	Displacing Indigenous People	10	25
11	Paths To Modernization	15	25
	Map work of the Related Themes	5	15
	Total	80	185
	Internal Assessment	20	25

	Grand Total	100	210
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			Main Topic and Sub-Topics :	Activities/Projects/ Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)	TESTS Periodic / Term /Pre Board/ Revision/ Annual Exam
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		4	Introduction to World History	A discussion on early human life and changes occurred in it.	
		4	Introduction of Early Societies		
		20	<p><b>Writing and City Life</b></p> <p>Focus: Iraq, 3rd millennium BCE</p> <p>9. Growth of towns</p> <p>10. Nature of early urban societies</p> <p>11. Historians’ Debate on uses of writing</p>	<p>“Written quiz” on the significance of writing.</p> <p>Announcement /selection of topic for project work.</p>	UNIT TEST-I
<b>UNIT TEST-I (17-19 July 2023)</b>					
		4	Introduction of Empires	Prepare a short note on the role of slavery as a significant element in the economy of Roman empire.	
		20	<p><b>An empire across three continents</b></p> <p>Focus: Roman Empire, 27 BCE to 600 CE</p> <p>a) Political evolution b) Economic</p>		

	24		Expansion 9. Religion-culture foundation 10. Late Antiquity 11. Historians' view on the Institution of Slavery		
		10	<b>Nomadic Empires (Up to page No. 113)</b> Focus: The Mongol, 13th to 14th century 6. The nature of nomadism 7. Formation of empires 8. Conquests and relations with other states 9. Historians' views on nomadic societies and state formation	How can we understand Genghis Khan as an "Oceanic ruler" Project work : Collection of data Preparation of project	

UNIT TEST-II –(21-23 Aug 2023)

		10	<b>Nomadic Empires (From page number 114 to last of the Unit)</b>		
		20	<b>The Three Orders</b> Focus: Western Europe 13th - 16th century a) Feudal society and economy	What similarities do you find between the conditions of life for a French serf and a Roman slave	UNIT TEST-II

			13. Formation of state 14. Church and society 15. Historians' views on	Project work: Analysis of the data	
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			decline of feudalism		
		8	Map Work for 1 <sup>st</sup> Term as based on the above Themes	Location and labelling on the maps based on the given chapters.	
		4	REVISION FOR 1 <sup>st</sup> Term Exam		TERM-1
TERM-1 (3-14 OCT 2023)					
		4	Introduction of Changing Traditions		
	24	20	<p><b>Changing Cultural Traditions</b> Focus: Europe 14th -17th century a) New ideas and new trends in literature and arts</p> <p>11. Relationship with earlier ideas 12. The contribution of West Asia 13. Historians' viewpoint on the validity of the notion 'European Renaissance'</p>	<p>A project on European Renaissance Completion of the project work.</p>	
UNIT TEST-III (07-09Dec 2023)		4	Introduction to Paths of Modernization		

	20		<p><b>Displacing Indigenous People</b></p> <p>Focus: North America and Australia, 18th to 20th century</p> <p>a) European colonists in North America and Australia b) Formation of White Settler societies</p> <p>10. Displacement and repression of local people</p> <p>11. Historians' viewpoint on the impact of European settlement on indigenous population</p>	Compare and contrast the 10 political situations of the native people of India and Australia during the first quarter of 20 <sup>th</sup> century.	
		4	<p>Map based on the Theme:</p> <p>Displacing Indigenous People</p>	Map work on the given topic.	
		24			
	12	25	<p><b>Paths To Modernization</b></p> <p>Focus: East Asia, late 19th to 20th century</p> <p>11. Militarization and economic growth in Japan</p> <p>12. China and the communist alternative c) Historians' Debate on the meaning of modernization</p>	Discuss about opium wars and occupation of Hong Kong by Britain.	UNIT TEST-III
		3	<p>Map based on the Theme:</p> <p>Paths To Modernization</p>	Map work	
		27	<p>UNIT TEST IV – (01-03 Feb 2024)</p> <p>&amp;</p> <p>REVISION</p>		



		16	TERM END EXAMS (14-27 MARCH2024)
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**\*The learning objectives and learning outcomes of each theme must be followed as per the CBSE class XI course structure (2023-24).**

## NAVODAYA VIDYALAYA SAMITI

**CLASS: XI**

**SUBJECT: INFORMATICS PRACTICES (065)**

**MAX. MARKS: 100 (70 Theory + 30 Practical)**

Distribution of Marks and Periods:

Unit No	Unit Name	Marks	Periods		
		Theory	Theory	Practical	Total
1	Introduction to Computer System	10	10	-	10
2	Introduction to Python	25	35	28	63
3	Database concepts and the Structured Query Language	30	23	17	40
4	Introduction to Emerging Trends	5	7	-	7
5	Practical	30	-	-	-
<b>TOTAL</b>		<b>100</b>	<b>75</b>	<b>45</b>	<b>120</b>

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPIC AND SUB-TOPICS TO BE COVERED	ACTIVITIES / PROJECTS / PRACTICAL EXPERIMENTS TO BE HELD / SPECIFIC ASSESSMENT TOOL(S) (SUGGESTED)	TESTS Periodic / Term / Pre-Board / Revision / Annual Exam
<b>TERM-1</b>					
JULY	25	21T + 10P	<p><b>UNIT 1: Introduction to Computer System</b></p> <p>19. Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, and input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery, and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.</p> <p><b>UNIT 2: Introduction to Python</b></p> <p>20. Basics of Python programming, Python</p>	<p>Exploring computer system parts and recording the configuration</p> <p>Activities as specified in the NCERT book.</p> <p>Executing</p>	<b>UT-1</b>

			interpreter - interactive and script mode, the structure of a program, indentation.	Python Programs.	
<b>AUGUST</b>	27	23T + 8P	11. Identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, and debugging. 12. Conditional statements: if-else, for loop.	Practical programs as specified in the list. Activities as specified in the NCERT book	<b>UT-2</b>
<b>SEPTEMBER</b>	26	21T + 10P	13. Lists: list operations - creating, initializing, traversing, and manipulating lists, list methods, and built-in functions. 14- Dictionary: the concept of key-value pair, creating, initializing, traversing, updating, and deleting elements, dictionary methods, and built-in functions.	Practical programs as specified in the list. Activities as specified in the NCERT book.	
<b>TERM-2</b>					
<b>OCTOBER &amp; NOVEMBER</b>	31	16T + 6P	<b>Unit 3: Database concepts and the Structured Query Language</b> 20. Database Concepts: Introduction to database concepts and its need, Database Management System. 21. Relational data model: Concept of the domain, tuple, relation, candidate key, primary key, alternate key. 22. Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, and Data Types.	SQL commands as specified in the list. Activities as specified in the NCERT book.	<b>TERM TEST – 1 (TERM-1 SYLLABUS ONLY)</b>

<b>DECEMBER</b>	<b>25</b>	<b>21T + 10P</b>	<p>12. Data Definition: CREATE TABLE</p> <p>13. Data Query: SELECT, FROM, WHERE</p> <p>14. Data Manipulation: INSERT</p>	<p>SQL commands as specified in the list.</p> <p>Activities as specified in the NCERT book.</p>	<b>UT-3</b>
<b>JANUARY</b>	<b>22</b>	<b>19T + 6P</b>	<p><b>Unit 4: Introduction to the Emerging Trends</b></p> <p>6. Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data, and its characteristics, Internet of Things (IoT), Sensors, Smart Cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Blockchain technology.</p>	<p>Activities as specified in the NCERT book.</p>	
<b>FEBRUARY</b>			<b>REVISION</b>	<b>UT-4</b>	
<b>MARCH</b>			<b>REVISION</b>	<b>TERM TEST – 2</b>	

- Note:**
9. *T* stands for the number of Theory periods and *P* stands for the number of Practical periods.
  10. Please refer to the CBSE curriculum 2023-24 for further clarifications and alterations (if any).

**Class XI (Practical)**

S. No	Description	Marks
1	Problem-solving using Python Programming Language	11
2	Creating a database using MySQL and performing Queries	7
3	Practical file (minimum of 14 python programs, and 14 SQL queries)	7
4	Viva – Voce	5
<b>Total</b>		<b>30</b>

## Suggested Practical List

### Programming in Python

12. To find average and grade for given marks.
13. To find sale price of an item with given cost and discount (%).
14. To calculate perimeter and area of shapes such as triangle, rectangle, square and circle.
15. To calculate Simple and Compound interest.
16. To calculate profit-loss for given Cost and Sell Price.
17. To calculate EMI for Amount, Period and Interest.
18. To calculate tax - GST / Income Tax.
19. To find the largest and smallest numbers in a list.
20. To find the third largest/smallest number in a list.
21. To find the sum of squares of the first 100 natural numbers.
22. To print the first 'n' multiples of given number.
23. To count the number of vowels in user entered string.
24. To print the words starting with a alphabet in a user entered string.
25. To print number of occurrences of a given alphabet in each string.
26. Create a dictionary to store names of states and their capitals.
27. Create a dictionary of students to store names and marks obtained in 5 subjects.
28. To print the highest and lowest values in the dictionary.

### Data Management: SQL Commands

29. To create a database
30. To create a student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.
31. To insert the details of at least 10 students in the above table.
32. To display the entire content of the table.
33. To display the Rno, Name, and Marks of students scoring more than 50.
34. To find the average of marks from the student table.
35. To find the number of students from section 'A'.
36. To display the information of all the students, whose name starts with 'AN'.
37. To display Rno, Name, and DOB of those students who are born between two different dates.
38. To display Rno, Name, DOB, Marks, and Email of those male students in ascending order of their names.
39. To display Rno, Gender, Name, DOB, Marks, and Email in descending order of their marks.
40. To display the unique section available in the table.

### Suggested material

NCERT Informatics Practices - Textbook for class - XI (ISBN- 978-93-5292-148-5)

**Note:** Any Changes in the syllabus, if announced by CBSE during the academic year 2023-24, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website.

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NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: MATHEMATICS

SUBJECT CODE: 041

Unit No	Name of The Chapter/unit	Periods	Marks
I	Sets and Functions	60	23
II	Algebra	50	25
III	Coordinate Geometry	50	12
IV	Calculus	40	08
V	Statistics and Probability	40	12
	Total	240	80
	Internal Assessment ----- (20Marks)		20
	Unit Tests(Best 2 out of 3 tests conducted) ----- (10Marks)		
	Mathematics Activities ----- (10Marks)		
	11. ----- The activities performed by the student throughout the year end record keeping (05Marks)		
	12. ----- Assessment of the activity performed during the year end test ----- (03Marks)		
	13. ----- Viva-voce (02Marks)		
	Grand Total		100

MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/Practical Experiments to be Held/Specific Assessment Tool(s) (Suggested)
APRIL 2023	25	15	<p><b>Unit -I : Sets and Functions</b></p> <p><b>1. Sets</b></p> <p>Sets and their representations, empty set, finite and infinite sets, equal sets, subsets, Intervals as subsets of real numbers. especially intervals (with notations) Universal set. Venn diagrams. Union and intersection of sets, Difference of Sets, Complement of a set, Properties of complement</p>	<p>Activity 1: To find the number of subsets of a given set and verify that if a set has 'n' elements then total number of subsets is <math>2^n</math></p>

		15	<p><b>4. Relations and Functions</b></p> <p>Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto <math>R \times R \times R</math>). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function is a special type of relation.</p> <p>Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.</p>	
-JULY2023	26	10	<p><b>Unit-II: Algebra</b></p> <p><b>5. Complex numbers and Quadratic equations</b></p> <p>Need for complex numbers, especially <math>\sqrt{-1}</math> by considering the quadratic equation of the type <math>x^2+1=0</math>. Solving of quadratic equation. Algebraic properties of complex numbers and Argand plane.</p>	
		<b>Unit Test-I (17-7-2023 TO 19-7-23)</b>		

AUGUST 2023	26	<p><b>7. Permutations and Combinations:</b></p> <p>10 Fundamental principle of counting. Factorial of n (n!). Permutations and combinations. Derivation of formulae for <math>n P_r</math> and <math>n C_r</math> and their relation. Simple Applications.</p> <p><b>Unit -I : Sets and Functions</b> <b>3 Trigonometric functions</b></p> <p>20 Positive and negative angles. Measuring angles in degrees and radians and their conversions. Definition of trigonometric functions with the help of Unit circle. Truth of the identity <math>\sin^2 x + \cos^2 x = 1</math> (for all x. Signs of trigonometric functions. Trigonometric identities. Domain and range of trigonometric functions and their graphs. Expression of <math>\sin(x \pm y)</math> and <math>\cos(x \pm y)</math> in terms <math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math> and <math>\cos y</math> and their simple applications. Derivations of identities of the following</p> $\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}$ $\cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}$ $\sin x \pm \sin y = 2 \sin \frac{x \pm y}{2} \cos \frac{x \mp y}{2}$ $\cos x + \cos y = 2 \cos \frac{x + y}{2} \cos \frac{x - y}{2}$ $\cos x - \cos y = 2 \sin \frac{x + y}{2} \sin \frac{x - y}{2}$ <p>Identities related to <math>\sin 2x</math>, <math>\cos 2x</math>, <math>\tan 2x</math>, <math>\sin 3x</math>, <math>\cos 3x</math> and <math>\tan 3x</math> etc.,</p>	<p>Activity2: To plot the graphs of <math>\sin x</math>, <math>\sin 2x</math>, <math>2 \sin x</math> and <math>\sin^2 \frac{x}{2}</math> Using the same coordinate axis</p>
		UNIT TEST-2 (21-8-23 TO 23-8-23)	



SEPTEMBER 2023	31	10	<b>9. Sequences and Series</b> Sequences and Series. Arithmetic mean (A.M). Geometric progression, general term of a G. P. Sum of terms of a finite G.P. Infinite G.P. Sum of an infinite G. P if absolute value of its common ratio is strictly less than 1. Geometric mean (G.M). Relation between A.M and G.M.	Activity 3: To demonstrate that the arithmetic mean of two different positive numbers is always greater than the geometric mean.
		10	<b>Unit – IV: Calculus</b> <b>13. Limits</b>  Intuitive idea of limit of a function. Limits of polynomials and rational functions, trigonometric, exponential and logarithmic functions.	Activity4: To find analytically $\lim_{x \rightarrow c} f(x) = \frac{x^2 - c^2}{x - c}$
OCTOBER 2023	26	15	<b>Unit- V: Statistics and Probability</b> <b>15. Statistics</b>  Statistics Measures of dispersion: Range, Mean deviation, Variance and Standard deviation of ungrouped/grouped data.	Activity5: To verify that the equation of a line passing through the point of intersection of two lines $a_1x+b_1y+c_1=0$ and $a_2x+b_2y+c_2=0$ is of the form $(a_1x+b_1y+c_1) + \lambda(a_2x+b_2y+c_2)=0$
		15	<b>UNIT III: COORDINATE GEOMETRY</b> <b>10. Straight lines</b>  Introduction to two-dimensional Euclidean Geometry. Slope of a line and angle between the lines. various forms of the equations of a line. Distance of a point from a line	
<b>TERM TEST -1 (3-10-23 TO 14-10-23)</b> <b>Up to September syllabus</b>				
<b>Autumn Break(23-10-23 TO 15-11-23)</b>				

NOVEMBER2023	15	20	<b>Unit – II: Algebra</b> <b>6.Linear inequalities</b> Algebraic solutions of linear inequalities in one variable and their representation on number line	Activity 6 To verify that the graph of given inequality by $5x+4y-40<0$ of the form $ax+by+c<0$ $a,b >0$ and $c<0$
		10	<b>8.Binomial Theorem</b> Historical perspective, statement and proof of binomial theorem for positive integral indices, Pascal's triangle, simple applications.	Activity:7 To construct a Pascal triangle and to write binomial expansion for a given positive integral
DEC2023	25	10	<b>Unit – III: Coordinate Geometry</b> <b>12 . Introduction to 3D geometry</b> Coordinate axes and Coordinate planes in three dimensions. Coordinates of a point. Distance between two points	Activity8: To explain the concept of octants by 3 mutually perpendicular planes in space
		25	<b>11. Conic Sections</b> Sections of a cone: Circles, ellipse, parabola and hyperbola. A point, a straight line and a pair of intersecting lines as a degenerated case of conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle	Activity 9: To construct different types of conic sections

			<b>UNIT TEST-3(7-12-23 TO 9-12-23)</b>	
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JANUARY 2024	25	25	<b>UNIT-IV CALCULUS</b>  Derivatives: Introduction of Derivative of a function as rate of change algebraically and geometrically. Definition of derivative of a function as a limit and its geometrical interpretation. Derivatives of polynomial and trigonometric functions. Algebra of Derivatives	
			<b>WINTER BREAK:13-01-24 TO 18-01-24)</b>  <b>UNIT TEST-4 (1-2-24 TO 3-2-24)</b>	
FEBRUARY 2024	24	20	<b>16 Probability</b>  Events: occurrence of events, 'not', 'and' and 'or' events. Exhaustive events, mutually exclusive events. Axiomatic approach to probability. Probability of an event. addition formula and probability of complement of an event	<b>Activity 10:</b> To write the sample space when coin is tossed one time, two times , three times and four times.
MARCH 2024	26		Revision ANNUAL EXAMINATION	

Prescribed Books:

- 1) Mathematics Textbook for Class XI, NCERT Publication
- 2) Mathematics Exemplar Problem for Class XI, Published by NCERT
- 3) Mathematics Lab Manual class XI, published by NCERT  
<http://www.ncert.nic.in/exemplar/labmanuals.html>

**Note:**

1. Any Changes in the syllabus, if announced by CBSE during the academic year 2022-23, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website.
2. The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class XI, published by CBSE. Throughout the year any 10 activities shall be performed by the student from the activities given in the Lab Manual.

NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: PHYSICS

SUBJECT CODE: 042

Unit No	Name of the Chapter / Unit	No. of Periods	Marks
<b>Unit-I</b>	<b>Physical World and Measurement</b>	<b>08</b>	<b>23</b>
	Chapter-2: Units and Measurements		
<b>Unit-II</b>	<b>Kinematics</b>	<b>24</b>	
	Chapter-3: Motion in a Straight Line		
	Chapter-4: Motion in a Plane		
<b>Unit-III</b>	<b>Laws of Motion</b>	<b>14</b>	
	Chapter-5: Laws of Motion		
<b>Unit-IV</b>	<b>Work, Energy and Power</b>	<b>14</b>	
	Chapter-6: Work, Energy and Power		
<b>Unit-V</b>	<b>Motion of System of Particles and Rigid Body</b>	<b>18</b>	
	Chapter-7: System of Particles and Rotational Motion		
<b>Unit-VI</b>	<b>Gravitation</b>	<b>12</b>	
	Chapter-8: Gravitation		
<b>Unit-VII</b>	<b>Properties of Bulk Matter</b>	<b>24</b>	
	Chapter-9: Mechanical Properties of Solids		
	Chapter-10: Mechanical Properties of Fluids		
	Chapter-11: Thermal Properties of Matter		
<b>Unit-VIII</b>	<b>Thermodynamics</b>	<b>12</b>	<b>20</b>
	Chapter-12: Thermodynamics		
<b>Unit-IX</b>	<b>Behaviour of Perfect Gases and Kinetic Theory of Gases</b>	<b>08</b>	
	Chapter-13: Kinetic Theory		
<b>Unit-X</b>	<b>Oscillations and Waves</b>	<b>26</b>	<b>10</b>
	Chapter-14: Oscillations		
	Chapter-15: Waves		
<b>Total</b>		<b>160</b>	<b>70</b>

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
JULY 2023		08	23	<p><b>Units and Measurements:</b> Need for measurement, systems of units; SI units, fundamental and derived units. Mathematical tools-basic concepts of algebra, trigonometry, calculus for understanding concepts in Physics. Significant figures. Dimensions of physical quantities, dimensional analysis and its applications.</p> <p><b>Motion in a Straight Line:</b> Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, and instantaneous velocity, uniformly accelerated motion, Motion in a Straight Line: velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).</p> <p><b>Motion in a Plane:</b> Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors.</p>	<p><b>Experiments: 1</b> ( Measure the diameter of a small spherical/cylindrical body and to calculate its volume using Vernier callipers )</p> <p><b>Activity:1</b> (Make a paper scale of given least count 0.2cm, 0.5 cm)</p> <p><b>Activity:2</b> (By the principle of moments ,find out the mass of a given body )</p>	<p><b>Assignment- 1</b> (Based on Mechanics )</p>
	24	18				

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
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AUGUST 2023		06		<p>Motion in a plane, cases of uniform velocity and uniform acceleration- projectile motion, uniform circular motion.</p> <p>Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.</p> <p>Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.</p> <p>Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).</p>	<p><b>Experiments: 2&amp;3</b></p> <p>2.Measure the diameter of a given wire and thickness of a given sheet using Screw gauge</p> <p>3.Using simple pendulum plot L-T<sup>2</sup> graph and use it to find out the effective length of Second's pendulum</p>	<p><b>Unit Test-1</b></p> <p><b>Assignment -2</b> (Based on projectile motion and Newton's Laws of motion)</p>
	25	14	17	<p><b>Work, Energy and Power :</b></p> <p>Work done by a constant force and a variable force; kinetic energy, work energy theorem. Power. Notion of potential energy, potential energy of a spring.</p>	<p><b>Activity: 3</b></p> <p>( 3.Study the variation in range of a projectile with angle of projection.</p>	
		08				





OCTOBER 2023	10	12	<p>Gravitation: Kepler's laws of planetary motion, universal law of gravitation.</p> <p>Acceleration due to gravity and its variation with altitude and depth.</p> <p>Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite.</p>	<p><b>Experiment: 6 &amp; 7</b></p> <p>(6 Determine the surface tension of liquid by capillary rise method</p> <p>7. Study the relation between frequency and length of a given wire under constant tension using sonometer</p> <p><b>Activities: 5</b></p> <p>(5. Study the factors affecting the rate of loss of heat of a liquid)</p>	<p><b>Term Test-1</b></p> <p>(up to syllabus covered till September 2023).</p>
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Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
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NOVEMBER 2023	15	18	20	<p><b>Mechanical Properties of Solids:</b> Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.</p> <p><b>Mechanical Properties of Fluids:</b> Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure.</p> <p>Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications.</p> <p>Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p>	<p><b>Experiment: 8</b></p> <p>Find the speed of sound in air at room temperature using a resonance tube at two resonance positions</p> <p><b>Activity 6</b></p> <p>Study the effect of load on depression of a suitably clamped meter scale loaded at its 1) ends 2) Its middle</p>	<p><b>Assignment -4</b></p> <p>Based on properties of matter</p>

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
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DECEMBER 2023		06	<p><b>Thermal Properties of Matter:</b> Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; <math>C_p</math>, <math>C_v</math> - calorimetry; change of state - latent heat capacity.</p> <p><b>Thermal Properties of Matter:</b> Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.</p>	<p><b>Project: 1</b></p> <p>From the list provided by CBSE</p>	Unit Test-3
	24	12	<p><b>Thermodynamics:</b> Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state - isothermal, adiabatic, reversible, irreversible, and cyclic processes.</p>	<p>Completion of left over practical</p>	
		08	<p><b>Kinetic Theory:</b> Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to</p>		
			<p>specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>		

JANUARY 2024	20	26	10	<p><b>Oscillations:</b> Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their application.</p> <p>longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves.</p> <p><b>Waves:</b> reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.</p>	Completion of left over practicals, Activities & project.	
	FEBRUARY 2024	25	30	Revision		Unit Test-4
March 2024			Practical Exam, Revision & Term-II Examination			

#### PRACTICALS

Total Periods 60

The record, to be submitted by the students, at the time of their annual examination, has to include: Record of at least 8 Experiments [with 4 from each section], to be performed by the students.

Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students, Report of the project carried out by the students

#### EVALUATION SCHEME

Time 3 hours

MAX.MARKS: 30

Two experiments one from each section	7+7 Marks
Practical record [experiments and activities]	5 Marks
One activity from any section	3 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks
Total	30 marks

#### SECTION-A

Experiments

- To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.

- b. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
- c. To determine volume of an irregular lamina using screw gauge.
- d. To determine radius of curvature of a given spherical surface by a spherometer.
- e. To determine the mass of two different objects using a beam balance.
- f. To find the weight of a given body using parallelogram law of vectors.
- g. Using a simple pendulum, plot its  $L-T^2$  graph and use it to find the effective length of second's pendulum.
- h. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.
- i. To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface.
- j. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination  $\theta$  by plotting graph between force and  $\sin \theta$ .

#### Activities

3. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
4. To determine mass of a given body using a metre scale by principle of moments.
5. To plot a graph for a given set of data, with proper choice of scales and error bars.
6. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
7. To study the variation in range of a projectile with angle of projection.
8. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
9. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

### SECTION-B

#### Experiments

3. To determine Young's modulus of elasticity of the material of a given wire.
4. To find the force constant of a helical spring by plotting a graph between load and extension.
5. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between  $P$  and  $V$ , and between  $P$  and  $1/V$ .
6. To determine the surface tension of water by capillary rise method.
7. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
8. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
9. To determine specific heat capacity of a given solid by method of mixtures.
10. To study the relation between frequency and length of a given wire under constant tension using sonometer.
11. To study the relation between the length of a given wire and tension for constant frequency using sonometer.
12. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.

#### Activities

5. To observe change of state and plot a cooling curve for molten wax. To observe and explain the effect of heating on a bi-metallic strip.
6. To note the change in level of liquid in a container on heating and interpret the observations.
7. To study the effect of detergent on surface tension of water by observing capillary rise. To study the factors affecting the rate of loss of heat of a liquid.
8. To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
9. To observe the decrease in pressure with increase in velocity of a fluid.

#### Practical Examination for Visually Impaired Students Class XI

Note: Same Evaluation scheme and general guidelines for visually impaired students as given for Class XII may be followed

6. Items for Identification/ familiarity with the apparatus for assessment in practical (All experiments)

Spherical ball, Cylindrical objects, vernier calipers, beaker, calorimeter, Screw gauge, wire, Beam balance, spring balance, weight box, gram and milligram weights, forceps, Parallelogram law of vectors apparatus, pulleys and pans used in the same 'weights' used, Bob and string used in a simple pendulum, meter scale, split cork, suspension arrangement, stop clock/stop watch, Helical spring, suspension arrangement used, weights, arrangement used for measuring extension, Sonometer, Wedges, pan and pulley used in it, 'weights' Tuning Fork, Meter scale, Beam balance, Weight box, gram and milligram weights, forceps, Resonance Tube, Tuning Fork, Meter scale, Flask/Beaker used for adding water.

7. List of Practicals

6. To measure diameter of a small spherical/cylindrical body using vernier calipers.
7. To measure the internal diameter and depth of a given beaker/calorimeter using vernier calipers and hence find its volume.
8. To measure diameter of given wire using screw gauge.
9. To measure thickness of a given sheet using screw gauge.
10. To determine the mass of a given object using a beam balance.
11. To find the weight of given body using the parallelogram law of vectors.
12. Using a simple pendulum plot L-T and L-T<sup>2</sup> graphs. Hence find the effective length of second's pendulum using appropriate length values.
13. To find the force constant of given helical spring by plotting a graph between load and extension
14.
  - a. To study the relation between frequency and length of a given wire under constant tension using a sonometer.
  - b. To study the relation between the length of a given wire and tension, for constant frequency, using a sonometer.
15. To find the speed of sound in air, at room temperature, using a resonance tube, by observing the two resonance positions.

Note: The above practicals may be carried out in an experiential manner rather than recording observations.

Prescribed Books:

1. Physics Part-I, Textbook for Class XI, Published by NCERT Physics Part-II,
2. Textbook for Class XI, Published by NCERT Laboratory Manual of Physics, Class XI  
Published by NCERT
3. The list of other related books and manuals brought out by NCERT (consider multimedia also).

Note:

The content indicated in NCERT textbooks as excluded for the year 2023-24 is not to be tested by schools

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XII**

**SUBJECT: AUTOMOTIVE**

**SUBJECT CODE: 804**

Sections	Units	No. of hours and practical	Max Marks
<b>PART A</b>	xxxviii. Communication Skills - IV	13	10
	xxxix. Self-Management Skills –IV	07	
	xl. ICT Skills- IV	13	
	xli. Entrepreneurial Skills- IV	10	
	xlii. Green Skills-IV	07	
	<b>TOTAL</b>	<b>50</b>	
<b>PART B</b>	(kk) Measuring and Service Equipment	30	10
	(ll) Steering System	15	07
	(mm) Suspension System	15	06
	(nn) Transmission and Final Drive System	15	07
	(oo) Automobile Electrical and Electronic System	35	15
	(pp) Motor Vehicle Act	10	05
	<b>TOTAL</b>	<b>120</b>	<b>50</b>
<b>PART C</b>	Practical	60	40
<b>GRAND TOTAL</b>		<b>230</b>	<b>100</b>

**Note – The Practical should be taught during regular hours, since they are part of theory classes.**



MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Topics/Activities/Projects / Practical Experiments to be Held (Suggested)
APRIL	24	48	<p><b>Unit: Communication Skills-IV</b> Session 1 : Active Listening Session 2 : Parts of Speech Session 3 : Writing Sentences</p> <p><b>Unit: Measuring and Service Equipment</b> Session 1 : Air Compressor Session 2 : Car Washer Session 3 : Tire Inflators</p>	<p>aa) Identify different components of the outside micrometer/ Vernier caliper and calculate the least count in the metric system.</p> <p>bb) Measure the Crank pin/main journal diameter of the given crankshaft using an outside micrometer/vernier caliper.</p> <p>cc) Measure the bore diameter of the cylinder using a cylinder bore gauge.</p>
JULY	22	48	<p><b>Unit : Measuring and Service Equipment</b> Session 4 : Spark Plug Cleaner and Tester Session 5 : Wheel Balancing</p> <p><b>Unit : Self-Management Skills-IV</b> Session 1 : Motivation and Positive Attitude Session 2 : Result Orientation Session 3 : Self-awareness</p> <p><b>Unit : Steering System</b> Session 1: Concept of Live &amp; Dead Axle Session 2: Ackerman's Principle of Steering Session 3 : Steering Geometry Session 4 : Steering Gear Box Session 5 : Steering Linkages Session 6 : Power Steering Session 7 : Trouble Shooting and Remedies</p>	<ul style="list-style-type: none"> <li>• Checking of voltage, and specific gravity of the electrolyte of a lead acid battery.</li> <li>• Servicing of given steering gearbox.</li> <li>• Checking of wheel alignment of a car. washing</li> </ul>
<b>PWT I – 17th to 19th JULY</b>				
ALL			<p><b>Unit : ICT Skills-IV</b> Session 1 : Getting Started with Spreadsheet . Session 2 : Performing Basic Operations on a Spreadsheet. Session 3 : Working with Data and Formatting Text Session 4 : Advanced Features in Spreadsheet.</p>	<p>tt) Replacement of lubricating oil in the transmission system.</p> <p>uu) Servicing of the propeller shaft..</p> <p>vv) Servicing of</p>

	23	46	<p>Session 5 : Presentation Software. Session 6 : Opening, Closing, Saving, and Printing a Presentation. Session 7 : Working with Slides and Text in a Presentation. Session 8 : Advanced Features used in Presentation.</p> <p><b>Unit : Suspension System</b> Session 1 : Introduction Session 2 : Types of Suspension System Session 3 : Description of Suspension System Session 4 : Components of a Suspension system Session 5 : Mac Person Strut Suspension Session 6 : Trouble Shooting Chart</p>	supervision system
<b>PWT II – 21st to 23rd AUGUST</b>				
<b>SEPTEMBER</b>	23	42	<p><b>Unit : Entrepreneurial Skills-IV</b> Session 1 : Entrepreneurship and Entrepreneur Session 2 : Barriers to Entrepreneurship Session 3 : Entrepreneurial Attitudes Session 4 : Entrepreneurial Competencies</p> <p><b>Unit : Transmission &amp; Final Drive System</b> Session1: Difference between Manual &amp; Automatic transmission. Session 2 : Propeller Shaft Session 3 : Universal Joint Session 4 : Final Drive Session 5 : Differential Session 6 : Rear Axle Session 7 : Trouble Shooting Chart</p> <p><b>Unit : Green Skills</b> Session 1 : Green Jobs Session 2 : Importance of Green Jobs</p>	<ul style="list-style-type: none"> <li>• Smarting and assembling of gearbox assembly.</li> <li>• Servicing of self-starter assembly.</li> <li>• Servicing alternator assembly.</li> <li>• Study of catalytic convertor.</li> </ul>
<b>OCTOBER</b>	16	12	<p><b>Unit : Automotive Electrical and electronic system</b> Session 1 : Introduction Session 2 : Purpose of Automotive Electrical System Session 3 : Layout of an Automotive Electrical</p>	

			System Session 4 : Charging System	
	<b>TERM-1(03.10.2023to14.10.2023)</b>			
<b>CTOBER</b>	<b>OCTOBER (23.10.2023 to15.11.2023) – AUTUMN BREAK</b>			
<b>NOVEMBER</b>	<b>13</b>	<b>35</b>	<b>Unit: Automotive Electrical and Electronic system</b> Session 5 : Starting System Session 6 : Different Circuit Diagrams of a Car Session 7 : Engine Management system - Sensors & Actuators Session 8 : Trouble Shooting Chart	✓ Identification of different types of servers fitted in a modern car
			<b>Unit: Motor Vehicle Act and Rules</b> Session 1 : Provision regarding Issue of Driving License Session 2 : Registration of Vehicle Session 3 : Insurance Session 4 : Claims Session 5 : Transfer of Ownership Session 6 : Fitness Certificate	
<b>DECEMBER</b>	<b>(Revision &amp; Completion of Internal Assessment)</b>			
	<b>Pre-Board-1(5.12.2023to16.12.2023)</b>			
<b>JANUARY</b>	<b>(Revision &amp; Completion of Internal Assessment)</b>			
	<b>Pre-Board-2(11.01.2024to23.01.2024)</b>			

<b>FEBRUARY</b>	<b>(Revision &amp; Uploading of Internal Assessment Marks in CBSE Portal)</b>
<b>MARCH</b>	<b>To be planned as per CBSE Time-Table for Board Exams 2023-2024</b>

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NAVODAYA VIDYALAYA SAMITI

CLASS : XII

SUBJECT : BIOTECHNOLOGY

SUBJECT CODE : 045

Unit No	Name of The Chapter/ unit	Marks	Periods
UNIT V	<b>CHAPTER 1:</b> Recombinant DNA technology	10	25
UNIT V	<b>CHAPTER 2:</b> Plant cell culture and applications.	14	25
UNIT V	<b>CHAPTER 3:</b> Genomics, Proteomics and Bioinformatics	16	28
UNIT VI	<b>CHAPTER 4 :</b> Microbial cell culture and its applications	8	25
UNIT VI	<b>CHAPTER 5:</b> Plant cell culture and applications	12	18
UNIT VI	<b>CHAPTER 6:</b> Animal cell culture and applications	10	15
	<b>TOTAL</b>	<b>70</b>	<b>136</b>

NAVODAYA VIDYALAYA SAMITI

CLASS-XII

SUBJECT: BIOTECHNOLOGY

SUBJECT CODE: 045

Month	No. Of Days	No. Of Period	Units/Subunits /Chapters/ topics/ to be covered	Details of practical/ project to be given	SPOTTERS /ACTIVITIES	Test s/ Assignments
APRIL 2023	23	25	<p><b>Unit V: Protein and gene manipulation</b> <b>Chapter1: Recombinant dna technology</b></p> <p>Introduction, tools of R-DNA technology, making R- DNA, introduction of R-DNA in to host cells, identification of recombinants, Polymerase Chain Reaction (PCR), DNA sequencing</p>	<p>1. Use of special equipment in biotechnology experiments</p> <p>2.Isolation of bacterial plasmid DNA</p>		
JULY 2023	23	25	<p><b>Chapter-2: Protein structure and engineering</b></p> <p>Introduction to the world of proteins, structure-function relationship in proteins, characterization of proteins, protein based products, designing proteins( protein engineering)</p>	<ul style="list-style-type: none"> <li>• Detection DNA by gel electrophoresis</li> <li>• Estimation of DNA by UV-Spectroscopy</li> </ul>	<p>ff) Test the presence of proteins .</p> <p>gg) Estimate the amount of proteins in plant and animal samples.</p>	UT-1 Ass.1

AUGUST 2023	26	28	<p><b>Chapter 3. Genomics, proteomics and bioinformatics</b> Gene prediction and counting, genome similarity, SNPS and comparative genomics, functional genomics, proteomics, information sources, analysis using bioinformatics tools</p>	<p>Reading of a DNA sequencing gel to arrive at the sequence. project work</p>	<p>1. Prepare a list of the scope of stem cell technology.</p> <p>UT-2</p>
SEPTEMBER 2023	23	25	<p><b>Unit VI</b> <b>Cell culture and genetic manipulation</b> <b>Chapter 4 :</b> <b>microbial cell culture and its applications</b> Introduction, microbial nutrition and culture techniques, measurement and kinetics of microbial growth, isolation of microbial products, strain isolation and improvement, applications of microbial culture technology</p>		
OCTOBER 2023	16	18	<p><b>Chapter 5:</b> <b>Plant cell culture and applications</b> Introduction, cell and tissue culture techniques, applications of cell and tissue culture, gene transfer methods in plants, transgenic plants with beneficial traits, Bio-safety of transgenic plants.</p>		<p>TERM-1</p>

NOVEMBER 2023	13	15	<b>Chapter 6: Introduction, animal cell animal cell culture and applications.</b> cell culture techniques, applications of animal cell culture, stem cell technology			
DECEMBER 2023	24	26	<b>DECEMBER 2023:</b>  Revision testand first Pre- Board examination.			PB-1
JANUARY 2024	24	26	<b>JANUARY 2023:</b> Revision test and second Pre- Board examination 2024.			PB-2
FEBRUARY & MARCH 2024	24	22	FEBRUARY & MARCH 2024: Practical exam and final board examination			

### PRACTICALS

30 Marks

**Note:** Every student will be required to do the following experiments during the academic session.

1. Use of special equipment in biotechnology experiments
2. Isolation of bacterial plasmid DNA
3. Detection of DNA by gel electrophoresis
4. Estimation of DNA by UV spectroscopy
5. Isolation of bacteria from curd & staining of bacteria
6. Cell viability assay using Evan's blue dye exclusion method
7. Data retrieval and database search using internet site NCBI and download a DNA and protein sequence from internet, analyze it and comment on it
8. Reading of a DNA sequencing gel to arrive at the sequence
9. Project work



**Scheme of Evaluation Time: 3 Hours**

**Max. Marks 30**

**The scheme of evaluation at the end of the session will be as under:**

A	Two experiments	6+6 (only one computer based practical)
	Practical record	04
	Viva on Practical	04
B	Project work	
	Write up	05
	Viva on project	05
	<b>Total</b>	<b>30</b>

**Note :- More emphasis should be given on hands on work in projects**

**Prescribed Books:**

1. A Text Book of Biotechnology - Class XI : Published by CBSE, New Delhi
2. As reference- Biotechnology - Class XI : Published by NCERT, New Delhi
3. A Laboratory Manual of Biotechnology - Class XI : Published by CBSE, New Delhi
4. A Text Book of Biotechnology - Class XII : Published by CBSE, New Delhi
5. A Laboratory Manual of Biotechnology - Class XII : Published by CBSE, New Delhi.

## NAVODAYA VIDYALAYA SAMITI

CLASS XII COM.

SUBJECT: ACCOUNTANCY

SUBJECT CODE: 055

<b>Part A: Accounting for Partnership Firms and Companies (60Marks)</b>			
Units	Name of the Chapter/ Unit	Marks	Periods
Unit-1	Accounting for Partnership Firms	36	105
Unit 2.	Accounting for Companies	24	45
	Total	60	150
<b>Part B: Financial Statement Analysis (20Marks)</b>			
Unit 3.	Analysis of Financial Statements	12	30
Unit 4.	Cash Flow Statement	8	20
	Total	20	50
<b>Part-C : Project Work (20Marks)</b>			
	Project File	4	
	Written Test	12	
	Viva Voce	4	
	Total	20	20
	Grand Total (A +B+C)	100	220

**Part A: Accounting for Partnership Firms and Companies**

MONTH	NO. OF DAYS	NO. OF PERIODS	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/ Specific Assessment Tool(s ) suggested
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2023 - APRIL	17	25	<p><b>Unit 1: Accounting for Partnership Firms:</b></p> <ul style="list-style-type: none"> <li>• Partnership: features, Partnership Deed. - Provisions of the Indian Partnership Act 1932 in the absence of partnership deed.</li> <li>- Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account- division of profit among partners, Guarantee of profits, - Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio).</li> <li>• Goodwill: Meaning, nature, factors affecting and methods of valuation - average profit, super profit and capitalization.</li> </ul> <p>Note:-Adjusted through partners capital/ current account or by raising and writing off goodwill (AS 26)</p> <p><b>Unit-2 Accounting for Partnership Firms</b></p> <p><b>Reconstitution and Dissolution:-</b></p> <p><b>-Change in profit sharing ratio among the existing partners</b> - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves, accumulated profits and losses. Preparation of revaluation account and Balance Sheet. <b>Admission of a partner</b> - effect of admission of a partner on change in the profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, treatment of reserves, accumulated profits and losses, adjustment of capital accounts and preparation of capital, current account and Balance Sheet</p>	<p>Role Play of students regarding formation of partnership and their agreement</p> <p>based on previous knowledge</p>
	<p><b>Class Test, Weekly Test, Oral Test, Mind map, case Studies.</b></p> <p><b>Worksheets on each concepts and numerical.</b></p> <p><b>Project report on partnership (Including Various Accounts, Adjustment entries etc.)</b></p>			

2023-JULY	11	15	<p><b>Retirement and Death of a Partner:</b> effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and preparation of capital, current account and balance sheet. Preparation of loan account of the retiring partner.</p> <ul style="list-style-type: none"> <li>• Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account.</li> </ul>	<p>Different assignments can be given to the students to understand the topic through role play method</p>
	<p>UNIT TEST 1 (17 - 19 JULY, 2023)</p> <p>Project, Quiz, Class Test, Weekly Test, Oral Test, Mind map, case Studies, Role Play</p>			

2023 - AUGUST	25	3 5	<p><b>Dissolution of a Partnership firm:</b> meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).</p> <p><b>Note:</b> (i) If the realized value of tangible assets is not given it should be considered as realized at book value itself.</p> <p>(ii) If the realized value of intangible assets is not given it should be considered as nil (zero value). (ii) In case, the realization expenses are borne by a partner, clear indication should be given regarding the payment thereof.</p> <p><b>Unit-3 Accounting for Companies</b></p> <p><b>Accounting for Share Capital</b></p> <ul style="list-style-type: none"> <li>• Features and types of companies</li> <li>• Share and share capital: nature and types.</li> <li>• Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issued at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash.</li> <li>• Concept of Private Placement and Employee Stock Option Plan (ESOP), Sweat Equity.</li> <li>• Accounting treatment of forfeiture and reissue of shares.</li> <li>• Disclosure of share capital in the Balance Sheet of a company.</li> </ul> <p><b>Accounting for Debentures</b></p> <ul style="list-style-type: none"> <li>• Debentures: Meaning, types, Issue of debentures at par, at a premium and at a</li> </ul>	<p>Project- The students may visit the different Auction Sale Spots to understand the concept for realising the assets./</p> <p>Information regarding different IPOs released in previous year</p>
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			discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as	
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			<p>collateral security-concept, interest on debentures. Writing off discount / loss on issue of debentures.</p> <p>Note: Discount or loss on issue of debentures to be written off in the year debentures are allotted from Security Premium Reserve (if it exists) and then from Statement of Profit and Loss as Finance Cost(AS-16)</p>	
<p><b>UNIT TEST-2</b></p> <p><b>21-23 Aug.2023</b></p> <p><b>Class Tests/ Slip Tests</b></p>				
2023 - SEPTEMBER	25	3 5	<p><b>Unit-4 Analysis of Financial Statements:- ( Part)</b></p> <p><b>Financial statements of a Company:</b> Meaning, Nature, Uses and importance of financial Statement.</p> <p>Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)</p> <p>Note: Exceptional items, extraordinary items and profit (loss) from discontinued operations are excluded.</p> <ul style="list-style-type: none"> <li>• Financial Statement Analysis: Meaning, Significance Objectives, importance and limitations.</li> <li>• Tools for Financial Statement Analysis: Cash flow analysis, ratio analysis.</li> </ul>	<p>Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play</p>
2023 - OCTOBER			<p>TERM TEST - 1 ( 03 - 14 OCTOBER)</p> <p><b>AUTUMN BREAK</b></p>	<p>Project Work – Comprehensive Problems</p>



2023 - NOVEMBER	10	18	<p><b>Unit-4 Analysis of Financial Statements :-( Part)</b></p> <p><b>Accounting Ratios:</b> Meaning, Objectives, Advantages, classification and computation.</p> <ul style="list-style-type: none"> <li>• Liquidity Ratios: Current ratio and Quick ratio.</li> <li>• Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio. Debt to Capital Employed Ratio.</li> </ul> <p>Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio, Fixed Asset Turnover Ratio, Net Asset Turnover Ratio and Working Capital Turnover Ratio.</p> <ul style="list-style-type: none"> <li>• Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.</li> </ul> <p><b>NOTE:</b> Net profit ratio is to be calculated on the basis of profit before and after tax</p> <p><b>Unit 5: Cash Flow Statement</b></p> <p>Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised) (Indirect Method only)</p> <p>Note: (i) Adjustments relating to depreciation and amortization, profit or loss on sale of assets is including investments, dividend (both final and interim) and tax.</p> <p>(ii) Bank overdraft and cash credit to be treated as short term borrowings.</p> <p>(iii) Current Investments to be taken as Marketable securities unless otherwise specified.</p> <p>Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised) (Indirect Method only)</p> <p><b>Note:</b> Previous years' Proposed Dividend to be given effect, as prescribed in AS-4, Events occurring after the Balance Sheet date. Current years' Proposed Dividend will be accounted for in the next year after it is declared by the shareholders.</p>	<p>Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play</p>
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2023 - DECEMBER	15	25	<b>REVISION(ROUND-1)</b> -Partnership -Company Accounts -Ratio Analysis	Different slip tests can be taken after revising one topic.
PRE-BOARD-1 (5-16 DEC.2023)				
2024 - JANUARY	18	28	<b>REVISION(ROUND-2)</b> -Cash Flow Statement -Partnership -Company Accounts	
PRE-BOARD-2 (11 - 23 JANUARY 2024)				
2024 -	20	35	<b>PRACTICAL EXAMINATIONS</b>  <b>FINAL REVISION AND PREPARATION FOR ANNUAL EXAMINATION</b>	Sample Practical Exams/ Viva, etc.
2024 -	25	30	<b>CBSE EXAMINATIONS</b>	

## SUGGESTED QUESTION PAPER PATTERN BY CBSE

Accountancy (Code No. 055)

Class XII (2023-24) Theory: 80 Marks 3 hrs. Project: 20 Marks

SN	Typology of Questions	Marks	Percentage
1	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
2	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	23.75%
3	<b>Analysing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
	Total	80	100%

**Note:** Any change in the syllabus /design of Question paper if announced by the CBSE in the academic year 2023-24 , has to be incorporated in the split-up syllabus by the concerned teachers and Principal accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website [www.cbseacademic.nic.in](http://www.cbseacademic.nic.in)

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XII (SCI)**

**SUBJECT: BIOLOGY**

**SUBJECT CODE: 044**

The present curriculum provides the students with updated concepts along with an extended exposure to contemporary areas of the subject. The curriculum also aims at emphasizing the underlying principles that are common to animals, plants and microorganisms as well as highlighting the relationship of Biology with other areas of knowledge. The format allows a simple, clear, sequential flow of concepts. It relates the study of biology to real life through the developments in use of technology. It links the discoveries and innovations in biology to everyday life such as environment, industry, health and agriculture. The updated curriculum also focuses on understanding and application of scientific principles, while ensuring that ample opportunities and scope for learning and appreciating basic concepts continue to be available within its framework. The prescribed syllabus is expected to:

- Promote understanding of basic principles of Biology
- Encourage learning of emerging knowledge and its relevance to individual and society
- Promote rational/scientific attitude towards issues related to population, environment and development.
- Enhance awareness about environmental issues, problems and their appropriate solutions.
- Create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings.
- Appreciate that the most complex biological phenomena are built on essentially simple processes.

It is expected that the students would get an exposure to various branches of Biology in the curriculum in a more contextual and systematic manner as they study its various units.

**COURSE STRUCTURE CLASS XII (2023-24) (THEORY)**

Time: 3 Hours

Max. Marks: 70

Unit No	Title	No. of Periods	Marks
VI	Reproduction	30	16
VII	Genetics and Evolution	40	20
VIII	Biology and Human Welfare	30	12
IX	Biotechnology and its Applications	30	12
X	Ecology and Environment	30	10
	<b>Total</b>	<b>160</b>	<b>70</b>

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held
April-2023	22	Total 33 = 30 (Unit-VI) + 03	<p><b>Unit VI-Reproduction:</b></p> <p><b>Sexual Reproduction in Flowering Plants</b> Sexual reproduction in flowering plant Flower structure; Development of male and female gametophytes; Pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; Double fertilization; post fertilization events - Development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony ; Significance of seed dispersal and fruit formation.</p> <p><b>Human Reproduction:</b></p>	<p><b>Experiments:</b></p> <p>1.Study of pollen germination on a cavity slide</p> <p><b>Spotting:</b></p> <p>1.Study of flowers adapted to pollination</p> <p>2.Exercise on Controlled pollination</p>

			<p>Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development up to blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).</p> <p><b>Reproductive health:</b></p> <p>Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness).</p> <p><b>Unit VII-Genetics and Evolution Heredity and variation:</b> Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance.</p>	<p>3. Pollen germination on stigma through a permanent slide or scanning electron micrograph. Olabs video (<a href="https://youtu.be/4wx3d02eib4">https://youtu.be/4wx3d02eib4</a>)</p> <p>4. Study and identify stages of gamete development i.e. T.S. of testis, T.S. of ovary through permanent slides. Olabs simulation <a href="https://bit.ly/3YUWOaU">https://bit.ly/3YUWOaU</a></p> <p>5. Study of meiosis through permanent slides</p> <p>6. Study of blastula through permanent slide Olabs simulation <a href="https://bit.ly/3S04eaB">https://bit.ly/3S04eaB</a></p> <p>May</p>
			<b>Summer Vacation</b>	<b>01-05-2023 to 29-06-2022 (60 Days)</b>
<b>May &amp; June</b>	-	-	<b>Main Topic and Sub-Topics to be Covered</b>	<b>Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)</b>
<b>Month</b>	<b>No. of Working Days</b>	<b>No. of Periods</b>	<p>multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and</p>	<p><b>Experiments:</b></p> <p>2. Prepare a temporary mount of onion root tip to study mitosis.</p> <p>Olabs video <a href="https://youtu.be/N-nIHhncEao">https://youtu.be/N-nIHhncEao</a></p> <p><b>Spotting:</b></p>

			<p>Klinefelter's syndromes.</p> <p><b>Molecular basis of Inheritance</b></p> <p>Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.</p> <p><b>Evolution</b></p> <p>origin of life; biological evolution and evidences for biological evolution (palaeontology, comparative anatomy, embryology and molecular evidence); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution.</p>	<p>7. Study of Mendelian inheritance using seeds of different colours of any plant Olabs simulation <a href="https://bit.ly/3S4laMX">https://bit.ly/3S4laMX</a></p> <p>8. Study of prepared pedigree charts. Olabs ZZsimulation <a href="https://bit.ly/3k5bKV1">https://bit.ly/3k5bKV1</a></p>
JULY-2023	25=22+03 (17 <sup>th</sup> to 19 <sup>th</sup> Unit-I)	37	<b>Unit-I Examinations 17<sup>th</sup> to 19<sup>th</sup> July 2023</b>	
			<p><b>Unit VIII - Biology and Human welfare Health and disease</b></p> <p>Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology -vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse..</p>	
August-2023				

Month	No. of Working Days	No. of Periods	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
August-2023	26 = 23 + 03 (Unit-II 21 <sup>st</sup> - 23 <sup>rd</sup> )	Total 39 = 30 ( Unit VIII) + 9 (Unit IX)	<p><b>Microbes in human welfare</b></p> <p>Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.</p> <p><b>Unit IX-Biotechnology and its applications</b></p> <p><b>Biotechnology - Principles and Processes.</b></p> <p>Genetic Engineering (Recombinant DNA Technology).</p>	<p><b>Spotting:</b></p> <p>Common disease-<b>causing</b> organisms like <b><i>Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm</i></b> through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.</p> <p><b>Experiments:</b></p> <p>3. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.</p>
			<b>Unit-II Examinations 21<sup>st</sup> to 23<sup>rd</sup> August, 2023</b>	
September-2023	24	Total 36 = 21 (Unit IX) + 15 (Unit X) = 36	<p><b>Biotechnology and its Applications</b></p> <p>Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents.</p> <p><b>Unit X - Ecology and Environment</b></p> <p>Organisms and environment Population interactions - mutualism, competition, predation, parasitism; population attributes</p>	<p><b>Experiments:</b></p> <p>4. Study of plant population density by quadrat method. Olabsvideo <a href="https://youtu.be/FlwR-EGE9zA">https://youtu.be/FlwR-EGE9zA</a></p> <p>5. Study of plant population frequency by quadrat method. Olabsvideo <a href="https://youtu.be/uBYqBNyoyMQ">https://youtu.be/uBYqBNyoyMQ</a></p>



		<p>- growth, birth rate and death rate, age distribution. (Topics excluded: Organism and its Environment, Major Abiotic Factors, Responses to Abiotic Factors, Adaptations).</p> <p><b>Ecosystem:</b></p> <p>Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles)</p>	
<b>REVISION FOR TERM-1 EXAMINATIONS</b>			

Month	No. of Working Days	No. of Periods	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
October-2023	06	15	<b>Theory-Term-I Examinations</b> 03-10-2023 to 14-10-2023	<b>Spotting:</b>  11. Modelspecimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.
			<b>Biodiversity and its Conservation</b>  Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.	
			<b>Autumn Break Starts from 23-10-2023</b>	<b>Investigatory Project</b>
N o	12	18	<b>Autumn Break Ends on 15-11-2023</b>	

			Revision of Difficult Topics Preparation for Pre-Board Examination-I	<b>Submission</b>  1.Record 2.Investigatory Project
December-2023	14	21	Pre-Board Examination - I  05-12-2023  to  16-12-2023  Revision of Difficult Topics Preparation for Pre-Board Examination-II	
January-2024	16	24	Review on Pre-Board-I Performance and Need based revision of difficult Topics. Preparation for Pre-Board Examination-II	
			Pre-Board Examination – II  11-01-2024  to  23-01-2024	
			All India Senior Secondary Practical Examination-2024	
February-2024	12	18	Review on Pre-Board-II Performance and Need based revision of difficult Topics. Revision of Difficult Topics Preparation for CBSE-Board Examination	
March			CBSE-Board Examination	

## XII BIOLOGY PRACTICALS

### A. List of Experiments

1. Prepare a temporary mount to observe pollen germination.
2. Study the plant population density by quadrat method.
3. Study the plant population frequency by quadrat method.
4. Prepare a temporary mount of onion root tip to study mitosis.
5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

### B. Study and observe the following (Spotting)

1. Flowers adapted to pollination by different agencies (wind, insects, birds).
2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
5. T.S. of blastula through permanent slides (Mammalian).
6. Mendelian inheritance using seeds of different colour/sizes of any plant.
7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
8. Controlled pollination - emasculation, tagging and bagging.
9. Common disease-causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.

**PRACTICALS**

Time allowed: 3 Hours

Max. Marks: 30

Evaluation Scheme	Marks
One Major Experiment 5	05
One Minor Experiment 2 & 3	04
Slide Preparation 1& 4	05
Spotting	07
Practical Record + Viva Voce	04
Investigatory Project and its Project Record + Viva Voce Credit (to the students' work over the academic session may be given)	05
<b>Total</b>	<b>30</b>

**Question Paper Design (Theory) 2023-24**

**Class XII Biology (044)**

**Competencies**

<b>Demonstrate Knowledge and Understanding</b>	<b>50%</b>
<b>Application of Knowledge / Concepts</b>	<b>30%</b>
<b>Analyse, Evaluate and Create</b>	<b>20%</b>

**Note:**

- u) Typology of questions: VSA including MCQs, Assertion – Reasoning type questions; SA; LA-I; LA-II; Source-based/ Case-based/ Passage-based/ Integrated assessment questions.
- v) An internal choice of approximately 33% would be provided.

**Suggestive verbs for various competencies**

- Demonstrate, Knowledge and Understanding  
-State, name, list, identify, define, suggest, describe, outline, summarize, etc.

- Application of Knowledge/Concepts  
-Calculate, illustrate, show, adapt, explain, distinguish, etc.
- Analyze, Evaluate and Create  
-Interpret, analyse, compare, contrast, examine, evaluate, discuss, construct, etc.

### Online Resources for Theory and Practicals

- n) Virtual Labs <https://diksha.gov.in/virtuallabs.html>)
- o) Olabs - <https://www.olabs.edu.in/>
- p) Virtual Fly lab <https://www.sciencecourseware.org/FlyLabJS/>
- q) Biology Interactive resources <https://www.biointeractive.org/classroom-resources>
- r) Online Macromolecular Museum <https://bit.ly/3YAQ1U0>
- s) Sumanas Multimedia Animations <https://bit.ly/311XRPj>
- t) Genetic Science Learning Center <https://learn.genetics.utah.edu/content/labs/>
- u) DNA Interactive <http://www.dnai.org/>
- v) DNA from the beginning <http://www.dnaftb.org/>
- w) Inside Cancer <http://www.insidecancer.org/>
- x) Your Genes Your Health <http://www.ygyh.org>
- y) Biology Animations <https://dnalc.cshl.edu/resources/animations/>
- z) Biology-Live <http://www.bio-alive.com/animations/biology.htm>
- aa) Virtual Cell Animations <https://vcell.science/>
- bb) Learn Genetics <https://learn.genetics.utah.edu/>
- cc) Untamedscience <https://untamedscience.com/science-videos-list/>
- dd) Pearson <https://untamedscience.com/pearson/>
- ee) Biology <https://www.pearson.com/channels/biology>

NAVODAYA VIDYALAYA SAMITI

CLASS:- XII COMMERCE

SUBJECT: BUSINESS STUDIES (054)

THEORY EXAMINATION-80 MARKS

TIME-3HRS

PROJECT WORK -20MARKS

Units		Periods	Marks
<b>Part A</b>	<b>PRINCIPLES AND FUNCTIONS OF MANAGEMENT</b>		
1	Nature and significance of Management	12	16
2	Principles of Management	14	
3	Business Environment	12	
4	Planning	14	14
5	Organizing	15	
6	Staffing	16	20
7	Directing	15	
8	Controlling	12	
TOTAL		110	50
<b>Part B</b>	<b>BUSINESS FINANCE AND MARKETING</b>	Periods	Marks
1	Financial Management	20	15
2	Financial Markets	18	
3	Marketing	30	15
4	Consumer Protection	12	
TOTAL		80	30
<b>Part C</b>	<b>Project Work (One)</b>	30	20

**Class: XII**

**Subject: Business Studies**

<b>Month</b>	<b>No. of Days</b>	<b>No. of periods</b>	<b>Weightage of marks for the unit/Chapter</b>	<b>Units/Sub-units/ Topics/Chapters to be covered</b>	<b>Details of Activity/ Practical/ Projects to be given</b>	<b>Unit Test/ Formative Tests/ Assignment</b>
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APR	25	12	16	<p><b>Unit. 01 – Nature and significance of Management</b></p> <p>Management - Concept, objectives, and importance.</p> <p>Management as Science, Art and Profession.</p> <p>Levels of Management</p> <p>Management functions-planning, organizing, staffing, directing and controlling - Coordination- concept and importance</p> <p><b>Unit. 02 – Principles of Management</b></p> <p>Principles of Management - Concept and significance</p> <p>Fayol's principles of management Taylor's Scientific management- principles and techniques</p> <p><b>Unit. 03 – Business Environment</b></p> <p>Business Environment - Concept and Importance.</p> <p>Dimensions of Business Environment- Economic, Social, Technological, Political and Legal</p> <p>Demonetization - concept and features</p>	<p>Role Play of students regarding formation of partnership and their agreement based on previous knowledge</p> <p>Activity:- Make groups of 5-6 students each according to the size of the class. Let them visit different manufacturing units. Assign them different tasks.</p>	<p>Class Test, Weekly Test, Oral Test, Mind map, case studies. Worksheets on each concepts and numerical. Project report on Business environment</p>



JULY	24	14	14 (Unit 4 <sup>th</sup> and 5 <sup>th</sup> )	<p><b>Unit. 04 – Planning</b></p> <p>Concept, importance and limitation</p> <p>Planning process</p> <p>Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme</p>	<p>Different assignments can be given to the students to understand the topic through role play method</p> <p>Activity:-</p> <p>Interview a local small business manager about how their objectives are set and time taken to achieve them.</p>	Unit Test - 01 Examinations (17-19, JULY, 2023)
		15		<p><b>Unit. 05 – Organizing</b></p> <p>Organizing - Concept and importance</p> <p>Organizing process</p> <p>Structure of organization- functional and divisional concept.</p>		
		07		<p>Formal and informal organization-concept</p> <p>Delegation: concept, elements and importance</p> <p>Decentralization: concept and Importance</p> <p><b>Unit. 06 – Staffing</b></p> <p>Concept and importance</p> <p>Staffing as a part of Human Resource Management concept</p> <p>Staffing Process</p> <p>Recruitment Process, sources</p> <p>Selection Process</p>		



		20		<p><b>Unit. 09 – Financial Management</b></p> <p>Concept, role and objectives of Financial Management</p> <p>Financial decisions: investment, financing and dividend- Meaning and factors affecting</p> <p>Financial Planning - concept and Importance</p> <p>Capital Structure – concept and factors affecting capital structure</p> <p>Fixed and Working Capital - Concept and factors affecting their requirements</p>		
SEP	25		15	<p><b>Unit. 10 – Financial Markets</b></p> <p>Financial Markets: Concept</p> <p>Money Markets: Concept</p> <p>Capital market and its types (primary and secondary)</p> <p>Stock Exchange - Functions and trading procedure</p> <p>Securities and Exchange Board of India (SEBI) - objectives and functions</p>	Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play	CHAPTER WISE TEST MAY BE CONDUCTED
		18				

OCT & NOV	28	30	15	<p><b>Unit. 10 – Marketing</b></p> <p>Marketing – Concept, functions and philosophies</p> <p>Marketing Mix – Concept and elements</p> <p>Product - branding, labeling and packaging – Concept</p> <p>Price - Concept, Factors determining price</p> <p>Physical Distribution – concept, components and channels of distribution</p> <p>Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations</p> <p><b>Unit. 10 – Consumer Protection</b></p> <p>Concept and importance of consumer protection</p> <p>The Consumer Protection Act, 2019:</p> <p>Source:</p> <p><a href="http://egazette.nic.in/WriteReadData/2019/210422.pdf">http://egazette.nic.in/WriteReadData/2019/210422.pdf</a></p> <p>Meaning of consumer</p> <p>Rights and responsibilities of consumers</p> <p>Who can file a complaint?</p> <p>Redressal machinery</p> <p>Remedies available</p> <p>Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)</p>	Project Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, case Studies, Role Play	TERM - 01 EXAMINATIO NS (03-10-2023 TO 14-10-2023)
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DEC	24	36	-	<b>REVISION (ROUND - 01)</b>  Nature and significance of management Principles of Management Business Environment Planning Organizing Staffing	Different application side questions/case study questions can be discussed by using the PPTs and other modes.	PRE-BOARD - 01 EXAMINATIONS (05-12-2023 TO 16-12-2023)
JAN	16	24	---	<b>REVISION (ROUND - 02)</b>  Directing Controlling Financial Management Financial Markets Marketing Management Consumer Protection	Different application side questions/case study questions can be discussed by using the PPTs and other modes.	PRE-BOARD - 02 EXAMINATIONS (11-01-2024 TO 23-01-2024)
FEB	PRACTICAL EXAMINATIONS, 2024					
MAR	CBSE BOARD EXAMINATIONS, 2024					

**SUGGESTED QUESTION PAPER PATTERN BY CBSE**

**Business Studies**

**(Code No. 054)**

**Class XII (2023-24)**

**Theory: 80 Marks**

**Project: 20 Marks**

SN	Typology of Questions	Marks	Percentage
01	Remembering and Understanding: Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
02	Applying: Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	19	23.75%
03	Analyzing, Evaluating and Creating: Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
	Total	80	100%

**NOTE:** - Any change in the syllabus, if announced by the CBSE during the academic year 2023-24, has to be incorporated in the split up syllabus by the concerned teachers accordingly. In this regard Teachers are requested to be in touch with the CBSE website.

## NAVODAYA VIDYALAYA SAMITI

**CLASS : XII**

**SUBJECT : Chemistry**

**SUBJECT CODE : 043**

Unit No	Name of The Chapter/ unit	Marks	Periods
1	Solutions	7	15
2	Electrochemistry	9	18
3	Chemical kinetics	7	15
4	d and f block elements	7	18
5	Coordination compounds	7	18
6	Haloalkanes and Haloarenes	6	15
7	Alcohols, Phenols and Ethers	6	14
8	Aldehydes, Ketones and Carboxylic acids	8	15
9	Amines	6	14
10	Biomolecules	7	18
	Total	70	160
	Practical Assessment	30	--
	Grand Total	100	--

### PRACTICALS

**Time Allowed: 03 Hours**

**Max.Marks:30**

Evaluation Scheme	Marks
I. Volumetric Analysis	08 Marks
II. Salt Analysis	08 Marks
III. Content based experiment	06 Marks
IV. Record + Viva	04 Marks
V. Project + Viva	04 Marks
<b>Total</b>	<b>30 Marks</b>

<b>MONTH</b>	<b>NO OF DAYS</b>	<b>NO. OF PERIODS</b>	<b>Weightage of Marks for the Unit/ Chapter</b>	<b>Main Topic and Sub-Topics to be Covered</b>	<b>Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)</b>	<b>TESTS</b> <b>Periodic / Term /Pre-Board/ Revision/ Annual Exam</b>
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APRIL / JUNE	26	15	7	<p><b>Unit II: Solutions 15 Periods</b></p> <p>Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.</p>	<p>1.(J). Determination of concentration/ molarity of <math>\text{KMnO}_4</math> solution by titrating it against a standard solution of:</p> <p>(a) Oxalic acid, (b) Ferrous Ammonium Sulphate (Students will be required to prepare standard solutions by weighing themselves).</p>
		18	9	<p><b>Unit III: Electrochemistry 18 Periods</b></p> <p>Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.</p>	<p>2. D. Variation of cell potential in <math>\text{Zn}/\text{Zn}^{2+}/\text{Cu}^{2+}/\text{Cu}</math> with change in concentration of electrolytes (<math>\text{CuSO}_4</math> or <math>\text{ZnSO}_4</math>) at room temperature.</p> <p>3.(A).(a) Preparation of one lyophilic and one lyophobic sol Lyophilic sol - starch, egg albumin and gum Lyophobic sol - aluminium hydroxide, ferric hydroxide, arsenous sulphide.</p>
		7	7	<p><b>Unit IV: Chemical Kinetics 15 Periods</b></p> <p>Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant,</p>	

JULY	24	8	<p>integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.</p>	<p>4.(B)(a) Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid.</p>	<p>PWT 1 / UT 1  (17-19 JULY 2023)</p>
		6	<p><b>Unit X: Haloalkanes and Haloarenes.</b> 15 Periods</p> <p><b>Haloalkanes:</b> Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.</p> <p><b>Haloarenes:</b> Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.</p>	<p>(b) Study of reaction rates of any one of the following: (i) Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentrations of Iodide ions. (ii) Reaction between Potassium Iodate, (KIO<sub>3</sub>) and Sodium Sulphite: (Na<sub>2</sub>SO<sub>3</sub>) using starch solution as an indicator (clock reaction).</p>	
		15	<p><b>Unit XI: Alcohols, Phenols and Ethers</b> 14 Periods</p> <p><b>Alcohols:</b> Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol.</p> <p><b>Phenols:</b> Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.</p>	<p>5 (H). Tests for the functional groups present in organic compounds: Unsaturation, alcoholic, phenolic, aldehydic, ketonic, groups.</p>	
		12			

AUGUST	27	2	8	<p><b>Ethers:</b> Nomenclature, methods of preparation, physical and chemical properties, uses.</p> <p><b>Unit XII: Aldehydes, Ketones and Carboxylic Acids</b> 15 Periods</p> <p><b>Aldehydes and Ketones:</b> Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, Uses.</p> <p><b>Carboxylic Acids:</b> Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.</p>	<p>6.(K). Qualitative analysis Determination of one anion and one cation in a given salt (03 salts per month or more)</p> <p>Cation: <math>Pb^{2+}</math>, <math>Cu^{2+}</math>, <math>As^{3+}</math>, <math>Al^{3+}</math>, <math>Fe^{3+}</math>, <math>Mn^{2+}</math>, <math>Zn^{2+}</math>, <math>Ni^{2+}</math>, <math>Ca^{2+}</math>, <math>Sr^{2+}</math>, <math>Ba^{2+}</math>, <math>Mg^{2+}</math>, <math>NH_4^+</math></p> <p>Anions: <math>CO_3^{2-}</math>, <math>S^{2-}</math>, <math>SO_3^{2-}</math>, <math>NO_2^{-1}</math>, <math>SO_4^{2-}</math>, <math>Cl^{-1}</math>, <math>Br^{-1}</math>, <math>I^{-1}</math>, <math>PO_4^{3-}</math>, <math>C_2O_4^{2-}</math>, <math>CH_3COO^{-1}</math>, <math>NO_3^{-1}</math> (Note: Insoluble salts excluded)</p>	<p><b>PWT 2 / UT 2</b> <b>(21-23 AUGUST 2023)</b></p>
		15	6	<p><b>Unit XIII: Amines</b> 14 Periods</p> <p><b>Amines:</b> Nomenclature, classification, structure, methods of preparation, physical properties and Identification.</p> <p><b>Diazonium salts:</b> Preparation, chemical reactions and importance in synthetic organic chemistry.</p>	<p>7. (H). Tests for the functional groups present in organic compounds: Carboxylic and amino (Primary) groups.</p> <p>8.(K). Qualitative analysis Determination of one anion and one cation in a given salt. (03 salts per month or more)</p> <p>Cation: <math>Pb^{2+}</math>, <math>Cu^{2+}</math>, <math>As^{3+}</math>, <math>Al^{3+}</math>, <math>Fe^{3+}</math>, <math>Mn^{2+}</math>, <math>Zn^{2+}</math>, <math>Ni^{2+}</math>, <math>Ca^{2+}</math>, <math>Sr^{2+}</math>, <math>Ba^{2+}</math>, <math>Mg^{2+}</math>, <math>NH_4^+</math></p> <p>Anions: <math>CO_3^{2-}</math>, <math>S^{2-}</math>, <math>SO_3^{2-}</math>, <math>NO_2^{-1}</math>, <math>SO_4^{2-}</math>, <math>Cl^{-1}</math>, <math>Br^{-1}</math>, <math>I^{-1}</math>, <math>PO_4^{3-}</math>, <math>C_2O_4^{2-}</math>, <math>CH_3COO^{-1}</math>, <math>NO_3^{-1}</math> (Note: Insoluble salts excluded)</p>	
		14				

SEPTEMBER	24	18	7	<p><b>Unit VIII: d and f Block Elements</b> 18 Periods</p> <p>General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of <math>K_2Cr_2O_7</math> and <math>KMnO_4</math>. Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.</p> <p><b>Unit IX: Coordination Compounds</b> 18 Periods Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).</p>	<p>9.(F). Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. Preparation of Potassium Ferric Oxalate.</p> <p>10.(E). Chromatography (a) Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of <math>R_f</math> values. (b) Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in <math>R_f</math> values to be provided).</p>	
OCTOBER	21			<b>Revision &amp; Exams-term I</b>		<b>3-14 Oct 2023</b>
OCTOBER				<b>AUTUMN BREAK</b>		

NOVEMBER	15	18	7	<p><b>Unit XIV: Biomolecules</b>  <b>Carbohydrates</b> 18 Periods            Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins - Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.</p>	<p>11. Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.</p> <p>12. Any one of the following experiments:</p> <p>(a) Enthalpy of dissolution of copper sulphate or potassium nitrate.</p> <p>(b) Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH).</p> <p>(c) Determination of enthalpy change during interaction (Hydrogen bond formation) between acetone and chloroform.</p>	
DECEMBER	24			<b>REVISION &amp; EXAMS</b>	<b>Investigatory Project</b>	<b>Pre-Board-I</b> <b>05-16 Dec 2023</b>
JAN	31	-		<b>REVISION &amp; EXAMS</b>	-----	<b>Pre-Board II</b> <b>11-23 Jan 2024</b>
FEB	29	-		<b>REVISION &amp; Annual Practical Examinations</b>	-----	
FEB & MARCH				<b>Annual Examinations</b>		

*Art integrated learning must be invariably adopted for clarifying scientific concepts.*

**NOTE: If any further change in the syllabus, if announced by CBSE during the academic year 2023-24, it has to be incorporated in the split up of syllabus by the concerned teachers and Principals accordingly. In this regard principals and teachers will always remain in touch with CBSE and its website.**

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NAVODAYA VIDYALAYA SAMITI

CLASS:XII

SUBJECT Computer Science

SUBJECT CODE: 083

Unit No	Name of The Chapter/ unit	Marks	Periods	
			THEORY	PRACTICALS
I	Computational Thinking and Programming - 2	40	70	50
II	Computer Networks	10	15	—
III	Database Management	20	25	20
	<b>Total</b>	<b>70</b>	<b>110</b>	<b>70</b>
	<b>Practicals</b>	<b>30</b>		
	<b>Grand Total</b>	<b>100</b>	<b>110</b>	<b>70</b>

MONTH	NO OF DAYS	NO OF PERIODS	WEIGHTAGE OF MARKS FOR UNIT	Main Topic and Sub-topics to be Covered	Activities/Projects/Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)	TESTS Periodic / Term / Pre Board/ Revision/ Annual Exam
APRIL	19	16T+15P		<b>UNIT : 1</b>  <b>Revision of Python topics covered in Class XI.</b>  <b>Functions:</b> types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)	Revision of all concepts of Python programming taught in class XI i.e. Strings, Conditional statements, iterative statement, list, tuples, dictionaries and Predefined functions in random module, math module etc  Python programs to implement Functions, passing parameters and returning values.	

JULY / AUGUST	29	24 T + 20 P	40 MARKS	<p>Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths</p> <p><b>Text file:</b> opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file</p>	<p>Python programs to open and close the file, read write and append to a file. Python program to implement text files and binary files. Projects can be assigned with data file handling.</p>	UT-1
AUGUST	26	29T+10P		<p><b>Binary file:</b> basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file</p> <p><b>CSV file:</b> import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader()</p> <p>Data Structure: Stack, operations on stack (push &amp; pop), implementation of stack using list.</p>	<p>Python programs to implement CSV file.</p> <p>Python programs to implement Stack using lists</p>	UT-2
SEPTEMBER / OCTOBER		15T	10 MARKS	<p><b>Unit II: Computer Networks</b></p> <p>Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves), Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) ,Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</p>	<p>Different Devices used in networking can be shown to the students.</p> <p>Network topologies implemented in the school can be described.</p>	

<b>SEPTEMBER / OCTOBER</b>	<b>33</b>	<b>15T+15P</b>	<b>20 MARKS</b>	<p><b>Unit III:</b></p> <p>Database Management Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete</p> <p>command, aggregate functions (max, min, avg, sum, count), group by, having clause</p>	<p>Installation of Mysql and hands on practicals on various queries on DDL and DML commands.</p> <p>Demonstrating the students to install a suitable connector for connecting databases with python.</p> <p>Projects can be assigned to students to implement applications mentioned in the practical section below.</p>	<b>TERM -1</b>
<b>TERM-1 &amp; AUTUMN BREAK</b>						
<b>NOVEMBER</b>	<b>15</b>	<b>10T+10P</b>		<p>Joins: cartesian product on two tables, equi-join and natural join</p> <p>Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications</p>	<p>Programs on connecting python with sql and executing the queries through python programs and printing the result with various fetch methods.</p>	
<p><b>DECEMBER</b> Revision, Project Work Preparation &amp; I Pre Board Examination</p> <p><b>JANUARY</b> Revision, Finalisation of Project &amp; II Pre Board Examination</p> <p><b>FEBRUARY</b> Revision, CBSE Practical Examination</p> <p><b>MARCH - APRIL</b> CBSE Board Examination</p>						
<p><b>Note: T stands for number of Theory periods and P for Practical periods.</b></p>						



**Class XII**

**(Practical)**

**Duration: 3 hours**

**Total Marks: 30**

SNO	UNIT NAME	MARKS (TOTAL=30)
1	<b>Lab Test:</b> 1. Python program (60% logic + 20% documentation + 20% code quality)	8
	2. A stub program with Python SQL connectivity must be provided with blanks (4 blanks) to be filled by the student with the desired SQL query.	4
2	<b>Report file:</b> <ul style="list-style-type: none"> <li>• Minimum 15 Python programs.</li> <li>• SQL Queries – Minimum 5 sets using one table / two tables.</li> <li>• Minimum 4 programs based on Python - SQL connectivity</li> </ul>	7
3	<b>Project</b> (using concepts learnt in Classes 11 and 12)	8
4	<b>VIVA VOCE</b>	3

**Suggested Practical List:**

**Python Programming**

- Read a text file line by line and display each word separated by a #.
- Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
- Remove all the lines that contain the character 'a' in a file and write it to another file.
- Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.
- Create a binary file with roll number, name and marks. Input a roll number and update the marks.
- Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
- Write a Python program to implement a stack using list.
- Create a CSV file by entering user-id and password, read and search the password for given user id.

**Database Management**

- Create a student table and insert data.

Implement the following SQL commands on the student table:

- o ALTER table to add new attributes / modify data type / drop attribute

- o UPDATE table to modify data
- o ORDER By to display data in ascending / descending order
- o DELETE to remove tuple(s)
- o GROUP BY and find the min, max, sum, count and average
  - Similar exercises may be framed for other cases.
  - Integrate SQL with Python by importing a suitable module.

### **Suggested Reading Material**

NCERT Textbook for COMPUTER SCIENCE (Class XII)

Support Materials on the CBSE website.

### **Project**

The aim of the class project is to create something that is tangible and useful using Python file handling/ Python-SQL connectivity. This should be done in groups of two to three students and should be started by students at least 6 months before the submission deadline. The aim here is to find a real world problem that is worthwhile to solve. Students are encouraged to visit local businesses and ask them about the problems that they are facing. For example, if a business is finding it hard to create invoices for filing GST claims, then students can do a project that takes the raw data (list of transactions), groups the transactions by category, accounts for the GST tax rates, and creates invoices in the appropriate format. Students can be extremely creative here. They can use a wide variety of Python libraries to create user friendly applications such as games, software for their school, software for their disabled fellow students, and mobile applications, of course to do some of these projects, some additional learning is required; this should be encouraged. Students should know how to teach themselves. The students should be sensitised to avoid plagiarism and violations of copyright issues while working on projects. Teachers should take necessary measures for this.

**NOTE: Any changes in the syllabus, if announced by CBSE during the academic year 2023-24, has to be incorporated in the split up of syllabus by the concerned teachers and Principals accordingly. In this regard principals and teachers will always remain in touch with CBSE and its website.**

NAVODAYA VIDYALAYA SAMITI

CLASS: 12

SUBJECT: ECONOMICS

SUBJECT CODE: 030

Units		Marks	Periods (As per CBSE)
<b>Part A</b>	<b>Introductory Macroeconomics</b>		
	National Income and Related Aggregates	10	30
	Money and Banking	06	15
	Determination of Income and Employment	12	30
	Government Budget and the Economy	06	17
	Balance of Payments	06	18
		<b>40</b>	
<b>Part B</b>	<b>Indian Economic Development</b>		
	Development Experience (1947-90) and Economic Reforms since 1991	12	28
	Current Challenges facing Indian Economy	20	50
	Development Experience of India – A Comparison with Neighbors	08	12
		<b>40</b>	
	<b>Theory Paper (Total)</b>	<b>80</b>	<b>200</b>
<b>Part C</b>	<b>Internal Assessment</b>	20	20
	<b>Grand Total</b>	<b>100</b>	

<b>MONTH</b>	<b>NO OF DAYS</b>	<b>NO OF PERIODS</b>	<b>Weightage of marks for the Unit /Chapter</b>	<b>Units/Sub units/Topics/Chapters to be covered</b>	<b>Details of Activity/Practical/ Projects to be given</b>	<b>Unit test/ Formative test/ Assignment</b>
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APRIL 2023	24	30	10	<p><b>Unit 1: National Income and Related</b></p> <p><b>Aggregates:</b></p> <p>What is Macroeconomics?</p> <p>Basic concepts in macroeconomics:</p> <p>Consumption goods, Capital goods,</p> <p>final goods, intermediate goods, stocks</p> <p>and flows, gross investment and depreciation.</p> <p>Circular flow of income (two sector model), Methods of calculating National Income- Value Added or Product method, Expenditure method, Income method.</p> <p>Aggregates related to National Income:</p> <p>Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP)-at market price, at factor cost, Real and Nominal GDP.</p> <p>GDP and Welfare.</p>	<p>Quiz, mind map, PPT presentation.</p> <p>Selection of topic for project work</p>	<p>Chapter wise practice test-1</p> <p>Oral test-1</p> <p>Assignment</p>
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JULY 2023	26	36	06	<p><b>Unit 2: Money and Banking</b></p> <p>Money- meaning and functions, supply of money- Currency held by the public and net demand deposits held by commercial banks.</p> <p>Money creation by the commercial banking system.</p> <p>Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.</p>	<p><b>Competitive based question</b></p> <p><b>Case study on impact and effect of Repo rate change</b></p> <p><b>Collection of material relates to project and review of literature</b></p>	<p><b>Oral test 2</b> <b>Chapter wise</b> <b>Practice test-2</b> <b>Unit test 1</b></p>
			12	<p><b>Unit 3: Determination of Income and Employment</b></p> <p>Aggregate demand and its components</p> <p>Propensity to consume and Propensity to Save (average and marginal).</p> <p>Short-run equilibrium output, investment multiplier and its mechanism.</p> <p>Meaning of full employment and involuntary unemployment.</p>		

AUGUST, 2023	25	36	06	<p>Problems of excess demand and deficient demand, measures to correct them-changes in government spending, taxes and money supply.</p> <p><b>Unit 4: Government Budget and the Economy</b></p> <p>Government budget- meaning, objectives and components.</p> <p>Classification of receipts- revenue receipts and capital receipts.</p> <p>Classification of expenditure- revenue expenditure and capital expenditure.</p> <p>Balanced, Surplus and Deficit Budget- measures of government deficit.</p>	<p><b>Debate</b></p> <p><b>Value based questions.</b></p> <p><b>Case study and Assertion</b></p> <p>question relates to deficit budget.</p> <p><b>Collection of data for project work</b></p>	<p><b>UNIT TEST -2</b></p> <p><b>ASSIGNMENT-2</b></p> <p><b>ORAL TEST-3</b></p> <p><b>CHAPTER WISE PRACTICE TEST-3</b></p>
			06	<p><b>Unit 5: Balance Of Payments</b></p> <p>Balance of payments account- meaning and components. Balance Of Payments-Surplus and Deficit</p> <p>Foreign exchange rate-meaning of fixed and flexible rates and managed floating.</p>		

<p style="text-align: center;">SEPTEMBER, 2023</p>	<p style="text-align: center;">25</p>	<p style="text-align: center;">36</p>	<p style="text-align: center;">12</p>	<p>Determination of exchange rate in a free market, Merits, and demerits of flexible and fixed exchange rate.</p> <p>Managed Floating exchange rate system.</p> <p><b>Unit 6: Development Experience (1947-90) and Economic Reforms since 1991:</b></p> <p>A brief introduction of the state of Indian economy on the eve of independence.</p> <p>Indian economic system and common goals of Five Year Plans.</p> <p>Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956, SSI- role and importance) and foreign trade.</p> <p><b>Economic Reforms since 1991:</b></p> <p>Features and appraisals of liberalization, globalization and privatization (LPG Policy),</p> <p>Concepts of demonetization and GST.</p> <p>Term -1 Syllabus Up to 6th unit only TERM 1</p>	<p>Analysis of project data</p> <p>Debate, quiz</p> <p>Application oriented questions</p>	<p>Oral test -4</p> <p>Chapter wise Practice test -4</p>



OCT, 2023/NOV, 2023	35	62	20	<p><b>Unit 7: Current Challenges facing Indian Economy</b></p> <p><b>Human Capital Formation:</b> How people become resource, Role of human capital in economic development, Growth of Education Sector in India.</p> <p><b>Rural development:</b> Key issues- credit and marketing- role of cooperatives, agricultural diversification, alternative farming- Organic farming</p> <p><b>Employment:</b> Growth and changes in work force participation rate in formal and informal sectors, problems and policies.</p> <p><b>Sustainable Economic Development:</b> Meaning, Effects of Economic Development on Resources and Environment, including global warming.</p> <p><b>Unit 8: Development Experience of India:</b> A comparison with neighbours India and Pakistan India and China</p> <p>Issues: economic growth, population, sectoral development and other Human Development Indicators.</p>	<p><b>Findings, policy recommendation and conclusion of project work</b></p> <p><b>Case study competitive based question MCQ</b></p> <p><b>Art integrated techniques</b></p>	Term Test 1
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DECEMBER, 2023	25			Revision	Submission Project	Pre-Board-I
JANUARY, 2024				Revision		Pre-Board-II
FEBRUARY, 2024				Revision		
MARCH, 2024						Board Exams

**PART – C**

**PROJECT WORK (20 MARKS)**

- Learners will complete only ONE project from different topics prescribed by the CBSE.
- Project should be of 3,500-4,000 words (excluding diagrams and graphs), preferably hand-written.

<b>List of Projects ( Class XI)</b>	
h) Micro and Small-Scale Industries	i) Food Supply Channel in India
j) Contemporary Employment situation in India	k) Disinvestment policy of the government
l) Goods and Services Tax Act and its Impact on GDP	• Health Expenditure (of any state)
m) Human Development Index	n) Inclusive Growth Strategy
o) Self-help group	p) Trends in Credit availability in India
q) Monetary policy committee and its functions	r) Role of RBI in Control of Credit
s) Government Budget & its Components	t) Trends in budgetary condition of India
u) Exchange Rate determination – Methods and Techniques	v) Currency War – reasons and repercussions
w) Livestock – Backbone of Rural India	x) Alternate fuel – types and importance

y) Sarwa Siksha Abhiyan – Cost Ratio Benefits	z) Golden Quadrilateral- Cost ratio benefit
aa) Minimum Support Prices	bb) Relation between Stock Price Index and Economic Health of Nation
cc) Waste Management in India – Need of the hour	dd) Minimum Wage Rate – approach and Application
ee) Digital India- Step towards the future	ff) Rainwater Harvesting – a solution to water crises
gg) Vertical Farming – an alternate way	hh) Silk Route- Revival of the past
ii) Make in India – The way ahead	jj) Bumper Production- Boon or Bane for the farmer
kk) Rise of Concrete Jungle- Trend Analysis	ll) Organic Farming – Back to the Nature
mm) Any other newspaper article and its evaluation on basis of economic principles	nn) Any other topic

**Marks are suggested to be given as –**

S.No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 Marks

Prescribed Books:

1. Macro Economics, NCERT
2. Indian Economic Development, NCERT

NAVODAYA VIDYALAYA SAMITI

CLASS:XII

SUBJECT:ENGLISH CORE

SUBJECT CODE: 301

Unit No	Name of The Chapter/ unit	Marks	Days	Periods
1	<b>Reading skills –</b> <ul style="list-style-type: none"> <li>• unseen passages to assess comprehension</li> <li>• unseen case –based passage</li> </ul>	20	6	40
2	<b>Creating writing skills</b> <ul style="list-style-type: none"> <li>• Notice</li> <li>II. Invitation</li> <li>• Letter writing</li> <li>• Report writing and Article writing</li> </ul>	20	6	40
3	<b>Flamingo</b> <b>Vistas:</b>	40	6	50
	<b>Total</b>	<b>80</b>	<b>18</b>	<b>130</b>
	<b>Internal Assessment</b>	<b>20</b>		<b>10</b>
	<b>Grand Total</b>	<b>100</b>		

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered		Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
			Flamingo/ Vistas	Reading & Advance Writing Skills	
APRIL 2023	16	20	(इ) The Last Lesson (Prose) (उ) My Mother at Sixty Six (Poem) (ऊ) The Third Level (Prose)	15- Unseen Passage. 16- Notice and Invitation & Replies (acceptance and regrets) <b>ASL Project-</b> Imposed Vs self-imposed linguistic Chauvinism in the present scenario of academic life in the light of 'The Last lesson'. (Objective- focuses on the necessity to take steps to protect the regional languages from the influence of foreign language) Assignment- Write a letter to the Editor highlighting/ expressing views on 'linguistic Chauvinism in the present scenario of academic life' Art Integrated Project – Based on the poem ' My Mother at Sixty Six' Assignment- Create a flow chart to expand story of 'The Third Level'/ of events in the story.	<b>Reading Section:</b> Practice in Unseen comprehension. <b>Writing Section :</b> Short writing task – Notice Notice for Meeting, Notice for events like Competition/Tour/ Celebration/ Annual Sports/ Cultural events etc. Notice for Lost and Found. Formal/Informal Invitation and Replies up to 50 words. Invitation Practice work for invitation and Notice Students may be asked to prepare PPTs of Formal and Informal invitation. Practice of drafting Invitation for different occasions and their replies. The students may be asked to write diary entry on a day when they were not prepared for test. Assessment Tool; Presentation by the students.
Summer Vacation (01 May 2023 – 29 June 2023)					

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">JULY 2023</p>	<p>23</p>	<p>32</p>	<p>1.Lost Spring 2- Keeping Quiet 3.The Tiger King</p> <p>UT – 01 17 to 19 July. 2023</p>	<p>I. Unseen passage to assess Comprehension, interpretation and inference.</p> <p>.Unseen passages ; case- based passage with verbal/ visual inputs like statistical data, charts etc.</p>	<p>Activities;</p> <p>(उ) Practice on Unseen passage to assess comprehension, interpretation and inference.</p> <p>(ऊ) Practice on Unseen case- based passage with verbal/visual inputs like statistical data, charts etc</p> <p>(ऋ)Discussion on Health hazards of Child Labour.</p> <p>(ॠ) Poster on Child labour.</p> <p>(ॡ) Visit the School of slum areas of locality talk to the students, teachers and their parents about the facilities provided to the students. Collect the data regarding facilities and on the basis of collected data write an article on “The Plight of the Students of Slum Areas” in about 120-150 words.</p> <p>6: Collect the data regarding government and NGOs activities to save tigers in India with the help of internet and library..</p> <p>7.Article writing on Child Labour</p> <p>8.Discussion on Question Answer</p>
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AUGUST2023	23	31	<p>(ए) Deep water (ए) The Rattrap (Prose) (ए) A Thing Of Beauty (Poem) (आ) Journey To The End of The Earth (Prose) (आ) UT - 2 21 to 23 Aug. 2023</p>	<p>(आ) Letter Writing: Letter Based On Verbal (आ) Visual Input. Application for job with bio data or resume. Letter to the Editor giving suggestion or opinion on issues of public interest.</p>	<p>(अ) Activities ;  (अः) Collect letters to Editors from the columns of newspapers.  (अअ) Understated the tone, style and organization .students will write letters to the Editor of a leading newspaper highlighting social/ political/ current issues. Teacher will collect the letters and discuss the content, tone, style, organization coherence etc. of each letter-  (आआ) Browse the internet to find out at leas  (इइ) 100 things of beauty and 100 things that cause suffering and pain. Enlist them and write.  (ईई) Find the personalities and events from the history of sports music dance etc. which proves that practice makes a man perfect. For example life of Sachin Tendulkar Sudha chandran etc.  (उउ) Discussion on Question Answer Assessment Tool:  (ऊऊ) Oral Test</p>

M O N T H	No. of Days	No of Periods	Main Topic and Sub-Topics to be Covered		Activities/Projects/ Practical Experiments to be Held/ specific Assessment Tool(s) (Suggested)
			Flamingo/ Vistas	Reading & Advance Writing Skills	
SEPTEMBER, 2023	23	28	15- Indigo (Prose) 16- Poets and Pancakes (Prose) 17- A Roadside Stand (Poem) 18- The Enemy	Article / Report writing, descriptive and analytical in nature based on verbal inputs.	9) Browse internet to get more information regarding film studio history Documentary film on Gandhi ji showing contribution on Indian National Movement may be shown. Students may be asked to write the Articles based on the Verbal inputs.  10) Practice of Speaking and Listening skills.  11) Students may be asked to read the Editorial columns of newspapers. Visual input/ verbal inputs may be given for writing letter to the Editor.  Assessment Tool; 1.Oral Test  2. Written class test. 3. Group discussion on the prevalent issues. 4.Discussion on Question Answer



OCTOBER. - NOVEMBER. 2023	23	25	<p>8) The Interview( Prose) 9) Aunt Jennifer's Tigers (Poem) 10) Going Places (Prose) 11) On the face of It. 12) Memo ries of Childhood 5) The Cutting of My Long Hair 6) We Too Are Human Beings</p> <p>Term – I 03.10.2023 to 14.10.2023</p> <p>Autumn Break (23.10. 2023 to 15.11.2023)</p>	<p>1. Discussion and practice of Unseen passages</p> <p>2 .Discussion and practice on Report writing.</p> <p>3. ALS Practice.</p>	<p>Collect reports from newspapers and rewrite them. Videos/ newspaper clippings may be shown to write reports following journalism expressions.</p> <p>The students may be given practice in writing various types of Reports.</p> <p>Group discussion on Condition of Women in the contemporary society, Gender Discrimination &amp; Things that hurt disabled people</p> <p>Find the difference of present day women to Aunt Jennifer's as described in the poem Aunt Jennifer's tigers.</p> <p>Write a report on the village market and super markets.</p> <p>Write your point of you on the decision taken by Dr. Sadao</p> <p>Write imaginary dialogues between Dr. Sadao and his wife on whether to save American soldier or not.</p> <p>Write an essay on the topic Fortune favours the Brave</p> <p>Project work to be assigned. Discussion on Question Answer Assessment Tool Term 1 Exam</p>
DECEMBER. 2023	10	13	<p>1st Pre Board 05.12. 2023 to 16.12.2023</p>	<ul style="list-style-type: none"> <li>• Discussion and practice of unseen passages. Practice of Notice, Invitation, Letters and Report writing.</li> <li>• Project work</li> </ul>	<p>Assessment Tool Pre</p> <p>Board Exam</p>

JANUARY 2023	18	21	Revision and discussion of all the chapters along with their characters and the main points (Flamingo and Vistas) WINTER BREAK (13.01.2024 to 18.01.2024)	Practice of unseen passages, Notice, Invitation, Letter to the Editor, Application for job, Article writing and Report writing. Sample paper Practice	Conduct of ALS and Project+ viva as per guidelines of CBSE  Clearance of doubt of the students. Assessment of project work. Assessment Tool Theatre /Role Play/Oral Presentation/Interview /Podcast.
Pre Board – 02: 11.01.2024 to 23.01.2024					
FEBRUARY. 2023	10	14	Reading Section Writing Section Literature	Revision for Board Examination	Revision Clearance of doubt of the students Assessment Tool Sample paper.
MARCH 2024 Board Examination					

## NAVODAYA VIDYALAYA SAMITI

CLASS: XII

SUBJECT: GEOGRAPHY

SUB.CODE: 029

SI. No.	NAME OF THE TEXTBOOKS/ UNITS/CHAPTERS	ALLOTTED MARKS	NUMBER OF PERIODS
1	Fundamentals of Human Geography	30	85
2	India- People and Economy	30	85
3	Practical Work in Geography – Part II	25+3+2= 30	40
4	Map Work from Fundamentals of Human Geography	5	5
5	Map work from India - People and Economy	5	5
	Total	100 Marks	220

Month	No. of days	No. of Periods	Main topic and subtopics to be covered	Activities/ projects/ practical	UTs
APRIL	22 Days	33 Periods	<u>Fundamentals of Human Geography</u> Unit I 1) Human Geography Nature and Scope	Activity_ Debate & Discussion on Naturalization of Humans and Humanization of	

			<p>2) The World Population: Distribution, Density and Growth</p> <p><u>India: People and Economy</u></p> <p>Unit I</p> <p>1) Population: Distribution, Density, Growth, and Composition</p> <p>2) Migration Types, Causes and Consequences– Deleted</p> <p>3) Human Development – Deleted</p>		
JULY	26 Days	39 Periods	<p><u>Fundamentals of Human Geography</u></p> <p>Unit II &amp; III</p> <p>3) <u>Population Composition – Deleted</u></p> <p>4) Human Development</p> <p>5) Primary Activities</p> <p><u>India: People and Economy</u></p> <p>Unit I</p> <p>4) Human Settlement</p>	<p><u>Practical Work in Geography II</u></p> <p>Data – Its Source and Compilation</p>	<p>UNIT TEST 1</p> <p>(17/7/2023 TO 19/7/2023)</p>
AUGUST	26 Days	39 Periods	<p><u>Fundamentals of Human Geography</u></p> <p>Unit III</p> <p>6) Secondary activities</p> <p><u>India: People and Economy</u></p> <p>Unit III</p> <p>5) Land Resources and Agriculture</p> <p>6) Water Resources</p>	<p><u>Practical Work in Geography - II</u></p> <p>Data Processing</p>	<p>UNIT TEST 2</p> <p>(21/8/2023 TO 23/8/2023)</p>

SEPTEMBER	25 Days	37 Periods	<u>Fundamentals of Human Geography</u> Unit III 7) Tertiary and Quaternary Activities <u>India: People and Economy</u> Unit III 7) Minerals and Energy Resources 8) Manufacturing Industries - Deleted 9) Planning and Sustainable Development in Indian Context	<u>Practical Work in Geography – II</u> Graphical Representation Of Data	
OCTOBER	17 Days Or As per Autumn break	26 Periods	<u>Fundamentals of Human Geography</u> Unit III 8) Transport and Communication <u>India: People and Economy</u> Unit IV 10) Transport and communication	Case Studies on Sustainable Development	First Terminal Examination (03/10/2023 TO 14/10/2023)
First Terminal Examination (03/10/2023 TO 14/10/2023)					

OCTOBER/NOVEMBER	13 Days Or As per Autumn break	20 Periods	<u>Fundamentals of Human Geography</u> Unit III 9) International Trade Unit IV 10) Human Settlement (Deleted)  <u>India: People and Economy</u> Unit IV 11) International Trade  Unit V 12) Geographical Perspective On Selected Issues and Problems	Practical Work in Geography – II 6) Spatial Information Technology	
DECEMBER	26 Days		1. Map Work on identification of features based on 1-5 units on the outline Physical/Political map of World.  2. Map work on locating and labeling of features based on above units on outline map of India.		Pre –Board Examination 1
JANUARY & FEBRUARY	Pre-Board 2 Examination (11 Jan 2024 - 23 January 2024) & Practical Examination				
MARCH	BOARD EXAMINATION 2024				

SUGGESTED CLASS ROOM ACTIVITIES: -

- GROUP DISCUSSION OR DEBATE
- MAP PRACTICE
- GRAPH AND DATA INTERPRETATION
- FOCUS ON LOCAL AREA RESOURCES & ENVIRONMENT
- OTHER RELEVANT ACTIVITIES

*Note: Any changes in the syllabus, if announced by CBSE during the academic year 2023-24, have to be incorporated into the split-up syllabus by the concerned teachers and Principal accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website. Art integrated activities must be integrated with the teaching-learning process.*

*\*Number of periods mentioned here against each month is insufficient to complete the whole syllabus within the stipulated time. Extra classes are necessary.*

NAVODAYA VIDYALAYA SAMITI

CLASS: 12

SUBJECT: हिन्दी

SUBJECT CODE: 302

इकाई सं	इकाई / पाठ का नाम	उप-भारांक	भारांक
<b>खंड अ ( वस्तुपरक प्रश्न )</b>			
1.	अपठित गद्यांश 20) एक अपठित गद्यांश (अधिकतम 300 शब्दों का ) (1 अंक x 10 प्रश्न)	10	15
	21) दो अपठित पद्यांशों में से कोई एक पद्यांश ( अधिकतम (150 शब्दों का) (1 अंक x 5 प्रश्न)	5	
2.	पाठ्य पुस्तक अभिव्यक्ति और माध्यम की इकाई एक से पाठ संख्या 3,4 तथा 5 पर आधारित • बहुवैकल्पिक प्रश्न (1 अंक x 5 प्रश्न )	5	5
3.	पाठ्य पुस्तक आरोह भाग -2 से बहुविकल्पात्मक प्रश्न • पठित काव्यांश पर पाँच बहुविकल्पी प्रश्न ( 1 अंक x 05 प्रश्न )	5	10
	• पठित गद्यांश पर पाँच बहुविकल्पी प्रश्न ( 1 अंक x 05 प्रश्न )	5	
4.	पूरक पाठ्य पुस्तक वितान भाग -2 से बहुविकल्पी प्रश्न • पठित पाठों पर दस बहुविकल्पी प्रश्न ( 1 अंक x 10 प्रश्न )	10	10
<b>खंड-ब ( वर्णनात्मक प्रश्न )</b>			



5.	<p>पाठ्य पुस्तक, अभिव्यक्ति और माध्यम से सृजनात्मक लेखन और व्यावहारिक लेखन पाठ संख्या 3,4,5,11,12 तथा 13 पर आधारित ।</p> <ul style="list-style-type: none"> <li>• दिये गए चार अप्रत्याशित विषयों से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेखन (6अंक x 1 प्रश्न )</li> <li>• कहानी का नाट्य रूपांतरण/रेडियो नाटक/अप्रत्याशित विषयों पर लेखन पर आधारित दो प्रश्न (3अंक x 2 प्रश्न ) ( विकल्प सहित ) (लगभग 60शब्दों में)</li> <li>(iii) पत्रकारिता और जनसंचार माध्यमों के लिए लेखन पर आधारित तीन में से दो प्रश्न ( 4 अंक x 2 प्रश्न ) (विकल्पसहित) (लगभग 80 शब्दों में )</li> </ul>	6          8	20
6.	<p>पाठ्य पुस्तक आरोह भाग-2</p> <ul style="list-style-type: none"> <li>• काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>• काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2 अंक x 2 प्रश्न )</li> <li>• गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>• गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2अंक x 2 प्रश्न )</li> </ul>	6   4  6  4	•
7.	<ul style="list-style-type: none"> <li>• श्रवण एवं वाचन  </li> <li>• परियोजना कार्य  </li> </ul>	10  10	20
कुल		100	100

#### प्रस्तावित पुस्तकें

- आरोह भाग -1, एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित
- वितान भाग -1, एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित
- अभिव्यक्ति और माध्यम एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित

हटाए गए पाठ : गद्य खंड: सहर्ष स्वीकारा है।, गज़ल(फिराक गोरखपुरी),

पद्य खंड: चार्ली चाप्लिन यानी हम सब, नमक । वितान : ऐन फ्रैंक – डायरी के पत्रे ।

( सी बी एस ई पाठ्यक्रम २०२२-२३ पर आधारित )

## पाठ्यक्रम विभाजन – सत्र 2023-24 (हिंदी आधार – कक्षा बारहवीं ।)

माह	दिन	कालांश	पाठ / उप-पाठ का नाम			क्रिया –कलाप / परियोजना कार्य
			आरोह भाग –एक	वितान भाग – एक	अभिव्यक्ति और माध्यम/ रचनात्मक लेखन	
अप्रैल, 2023	22	25	<p>गद्य खंड:</p> <p>भक्तिन – महादेवी वर्मा</p> <p>पद्य खंड:</p> <ul style="list-style-type: none"> <li>○ आत्मपरिचय</li> <li>○ एक गीत – हरिवंशराय बच्चन</li> </ul>	सिल्वर वेडिंग - मनोहर श्याम जोशी	विभिन्न माध्यमों के लिए लेखन	पीढ़ी का अंतराल - वादविवाद
जुलाई, 2023	25	28	<p>गद्य खंड:</p> <p>XV) बाज़ार दर्शन – जैनेन्द्र कुमार XVI) काले मेघा पानी दे- धर्मवीर भारती</p> <p>पद्य खंड :</p> <ul style="list-style-type: none"> <li>● पतंग - आलोक धन्वा</li> <li>● कविता के बहाने – कुंवर नाराय</li> <li>● बात सीधी थी - कुंवर नारायण</li> </ul>	सिल्वर वेडिंग - मनोहर श्याम जोशी	अपठित गद्यांश अपठित पद्यांश	<p>उपभोक्तावादी संस्कृति एवं उसके समाज पर दुष्प्रभाव - परिचर्चा</p> <p>‘पानी बचाओ’विषय से जुड़े विज्ञापनों का संकलन।</p>
<b>प्रथम इकाई परीक्षा</b>						

अगस्त 2023	21	24	<p>गद्य खंड:</p> <ul style="list-style-type: none"> <li>पहलवान की ढोलक – - फणीश्वरनाथ रेणु</li> </ul> <p>पद्य खंड:</p> <p>xxii) कैमरे में बंद अपाहिज - रघुवीर सहाय</p> <p>xxiii) उषा - शमशेर बहादुर सिंह</p>	<p>जूझ - आनंद यादव</p>	<p>कैसे करें कहानी का नाट्य रूपांतरण, कैसे बनता है रेडियो नाटक, नए और अप्रत्याशित विषयों पर लेखन</p>	<p>प्राचीन काल एवं आधुनिक काल के खेलों को सूचीबद्ध करना।</p>
<b>द्वितीय इकाई परीक्षा</b>						
सितंबर, 2023	21	24	<p>पद्य खंड:</p> <ul style="list-style-type: none"> <li>बादल राग - सूर्यकांतत्रिपाठी निराला</li> <li>कवितावली - तुलसीदास</li> <li>लक्ष्मण मूर्छा एवं राम का विलाप-तुलसीदास</li> </ul> <p>गद्य खंड:</p> <ul style="list-style-type: none"> <li>शिरीष के फूल - हज़ारी प्रसाद द्विवेदी</li> </ul>	<p>अतीत में दबे पांव – ओम थानवी</p>	<p>पुनरावृत्ति</p>	<p>तुलसीदास के साहित्य में प्रयुक्त छंद व काव्य रूपों की सूची बनाना।</p>
अक्टूबर, 2023	23	26	<p>पद्य खंड:</p> <ul style="list-style-type: none"> <li>रुबाइयां- फिराक गोरखपुरी</li> <li>छोटा मेरा खेत-उमाशंकर जोशी</li> </ul> <p>पुनरावर्तन</p>		<p>पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया।</p>	<p>विद्यार्थियों द्वारा देखे गए किसी ऐतिहासिक स्थल की परिचर्चा।</p>
<b>प्रथम सत्रांत परीक्षा</b>						
नवंबर, 2023	26	30	<p>गद्य खंड:</p> <ul style="list-style-type: none"> <li>श्रम विभाजन और जाति प्रथा</li> <li>मेरी कल्पना का आदर्श समाज- भीमराव अम्बेडकर</li> </ul> <p>पद्य खंड:</p> <p>बगुलों के पंख-उमाशंकर जोशी</p>		<p>विशेष लेखन - स्वरूप और प्रकार।</p>	<p>अंबेडकर की कल्पना में आदर्श समाज -- वादविवाद।</p>

दिसंबर 2023	15	10	पुनरावृत्ति प्री-बोर्ड - 01	
जनवरी 2024	20	10	पुनरावृत्ति प्री-बोर्ड - 02	
फ़रवरी 2024	24	12	विद्यार्थियों के आवश्यकतानुसार पाठों की पुनरावृत्ति , वार्षिक परीक्षा ।	
मार्च 2024			वार्षिक परीक्षा ।	

- यह पाठ्यक्रम विभाजन सी बी एस ई द्वारा प्रकाशित 2022-23 पाठ्यक्रम पर आधारित है । सी बी एस ई द्वारा 2023-24 का पाठ्यक्रम प्रकाशित होने पर तदनुसार आवश्यक संशोधन अपेक्षित है।

NAVODAYA VIDYALAYA SAMITI

CLASS:... XII....

SUBJECT.....HISTORY.....

SUBJECT CODE: 027

Unit No	Name of The Chapter/ unit	Marks	Periods
01	1 Bricks, Beads and Bones	25	15
	2 Kings, Farmers and Towns		17
	3 Kinship, Caste and Class		17
	4 Thinkers, Beliefs and Buildings		12
02	5 Through the Eyes of Travelers	25	12
	6 Bhakti –Sufi Traditions		15
	7 An Imperial Capital: Vijayanagar		17
	8 Peasants, Zamindars and the State		17
03	9 Colonialism and The Countryside	25	14
	10 Rebels and the Raj		14
04	11 Mahatma Gandhi and the Nationalist Movement	25	15
	12 Framing the Constitution		15
	MAP WORK	5	15
	TOTAL	80	195
	INTERNAL ASSESSMENT/PROJECT WORK	20	25
	GRAND TOTAL	100	220

			<b>Main Topic and Sub-Topics to be Covered</b>	<b>Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s)(Suggested)</b>
APRIL /JULY	15	15	<b>Bricks, Beads and Bones</b> –The Harappan civilization	MAP PRACTICE OF HARAPPAN SITES
		.	Beginnings 2.Subsistence Strategies 3.Mohenjodaro a planned Urban Centre 4.Tracking Social Differences 5.Finding out about Craft Production 6.Strategies for	QUIZ BASED ON THE KNOWLEDGE OF TOPICS HISTORICAL TRIP, PROJECT GUIDELINES ALLOTMENT OF FINAL TOPIC FOR PROJECT WORK.
			Procuring Materials 7.Seals, Scripts, Weights 8.Ancient Authority 9.The End Of The Civilization 10.Discovering the Harrapan Civilization 11.Problems of piecing together the Past	

		<p><b>Kings, Farmers and Towns –</b> Earlystates and Economics (C. 600 BCE- 600CE ) 1.Prinsep and Payadas’ 2.The Earliest States 3.An Early Empire 4.NewNotions of Kingship 5.A changing Countryside 6.Towns and Trade 7.Backto basics: How are Incriptionsdeciphered?</p>	<p>MAP PRACTICE OF EARLY STATES AND THEIR CAPITALS,QUIZ-ANCIENT KINGDOM AND TOWNS  VISIT TO NEAR BY HISTORICAL MUSEUM  MAP PRACTICE OF MAHA JANPADAS QUIZ ON SUBTOPICS</p>
		<p><b>Kinship, Caste and Class- Early Societies (C. 600 BCE- 600 CE)</b> 1.Thecritical edition of the Mahabharata2.Kinship and marriage: Many rules and varied practices 3.Social differences: Within and beyond theframework of Caste 4.Beyond birthResources and Status 5.Explaining Social differences: A Social Contract 6.Handing Texts, Historians and the Mahabharata 7.A Dynamic Text</p>	<p>,PERFORMING OF PLAY BASED ON THE STORY OF MAHA BHARATA</p>

UNIT TEST 1 – (17-19 July 2023)

AUG	24	12	<p><b>Thinkers, Beliefs and Buildings</b></p> <p>Cultural Developments (C. 600 BCE- 600 CE) 1. A glimpse of Sanchi 2.The background:Sacrifices and Debates 3.Beyond worldly pleasure ,The message of Mahavira 4.The Buddha and the quest for Enlightenment 5.The teachings of the Buddha 6.Followers of the Buddha 7.Stupas 8."Discovering" Stupas, The faith of Amaravati and Sanchi9.Sculpture 10.New Religious Traditions 11.Can we "SEE" everything?</p>	<p>MAP PRACTICE OF BUDDHIST SITES VISIT OF NEAR BY BUDDHIST AND PURANIC SITES PLANING AND DATA COLLECTION FOR PROJECTWORK. QUIZ BASED ON BUDDISM,JAINISM AND PURANIC HINDUISM MAP PRACTICE OF SITESVISITED BY IBN-BATTUTA QUIZ ON SUBTOPICS</p>
		12	<p><b>Through the Eyes of Travelers</b></p> <p>Perceptions of Society (C. Tenth to</p>	<p>CONDUCT A GROUP DISCUSSION ON THE ACCOUNT OF MEDIEVAL FOREIGN TRAVELLERS</p>
			<p>seventeenth century)1.Al-Biruni andthe Kitab-UI-Hind xxiv) Ibn Battuta's Rahal xxv) Francois Bernier, A Doctor with adifference xxvi) Making sense of an alien world, Al-Birungi and the Sanskrit tradition 5.Ibn Battuta and the excitement of the unfamiliar 6.Bernier and the "Degenerate "East 7.Women,Slaves,Sati and Laboure's</p>	



		13	<p><b>Bhakti –Sufi Traditions</b> Changes in Religious beliefs and devotional tests ( C. Eight to Eighteenth century) 1.A Mosaic of Religious beliefs and practices</p> <p>2.Poems of Prayers: Early traditions of Bhakti 3.The Vira Shaiva tradition in Karnataka</p> <p>4.Religious ferment in North India 5.New Strands in the fabric Islamic traditions 6.The Growth of Sufism 7.The Chishti’s in the Subcontinent 8.New devotional paths dialogue and dissent Northern India</p> <p>9.Reconstructing Histories of religious traditions</p>	<p>MAP PRACTICE OF TEMPLES AND SUFI SHRINES QUIZ VISIT OF NEARBY TEMPLES AND DARGAHAS OF SUFI’S</p>
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UNIT TEST 2- (21-23 Aug 2023)

SEP/ OCT	26	17	<p><b>An Imperial Capital: Vijayanagar</b> (C. Fourteenth to Sixteenth Century) 1.The discovery of Hampi 2.Rayas,Nayakas and Sultans 3.Vijayanagara The Capital and its Environs 4. The Royal Centre</p>	MAP PRACTICE, QUIZ,
			<p>5.The Sacred Centre 6.Plotting Palaces, Temples and Bazaars 7.Questions in search of answers</p>	OBSERVATION OF VARIOUS CULTURAL ACTIVITIES DURING AUTUMN SEASON

	17	<p><b>Peasants, Zamindars and the State</b> Agrarian Society and the Mughal Empire (C. Sixteenth – Seventeenth Centuries)</p> <p>1. Peasants and agricultural production 2. The village community 3. Women in agrarian society 4. Forests and Tribes 5. The Zamindars 6. Land revenue system 7. The flow of silver 8. The Ain-I-Akbari of Abul Faze Alemi</p>	<p>MAP PRACTICE OF THE AREAS OF MUGHAL EMPIRE QUIZ</p> <p>A SURVAY OF NEAREST VILLAGE AND TRIBAL AREA MAP PRACTICE, QUIZ</p> <p>COLLECTIONS AND</p>
15	14	<p><b>Colonialism and The Countryside</b> Exploring official Archives 1. Bengal and the Zamindars 2. The Hoe and Plough 3. A Revolt in Countryside: The Bombay Deccan 4. The Deccan riots Commission</p> <p><b>Rebels and the Raj The Revolt of 1857</b> and Its Representations 1. Pattern of the Rebellion 2. Awadh in Revolt 3. What the Rebels wanted 4. Repression 5. Images of the Revolt</p>	<p>PRACTICE THE MAP MAJOR CENTRES OF BRITISH POWER QUIZ</p> <p>SKITT ON FREEDOM STRUGGLE</p>
TERM-1- (03-14 Oct 2023)			

Nov	26	15	<p><b>Mahatma Gandhi and the Nationalist Movement</b> Civil Disobedience and Beyond 1. A Leader announces Himself</p>	<p>MAP PRACTICE OF MAJOR SITES OF GANDHIAN MOVEMENT</p>
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			2.The making and unmaking of NonCooperation 3.The Salt Satyagraha :A Case Study 4.Quit India 5.The last Heroic days 6.Knowing Gandhi	SKIT ON DANDI SATYAGRAHA QUIZ ON INDIAN CONSTITUTION MOCK PARLIAMENT
		15	<b>Framing the Constitution</b> The Beginning of a New Era	
		15	MAP WORK	DATA ANALYSIS AND INTERPRETATION FOR PROJECT WORK
		25	INTERNAL ASSESSMENT/PROJECT WORK	
REVISION IN DECEMBER AND PRE BOARD I, 2023 & PRE BOARD-II IN JANUARY 2024				
<b>ANNUAL EXAMINATION FROM 15<sup>TH</sup> FEB – 31<sup>ST</sup> MARCH 2024</b>				

## NAVODAYA VIDYALAYA SAMITI

**CLASS: XII**  
**MAX. MARKS: 100 (70 Theory + 30 Practical)**

**SUBJECT: INFORMATICS PRACTICES (065)**

**Distribution of Marks:**

Unit No	Unit Name	Marks		Periods	
		Theory	Theory	Practical	Total
1	Data Handling using Pandas and Data Visualization	25	25	25	50
2	Database Query using SQL	25	20	17	37
3	Introduction to Computer Networks	10	12	–	12
4	Societal Impacts	10	14	–	14
	Project	–	–	7	7
	Practical	30	–	–	–
	<b>TOTAL</b>	<b>100</b>	<b>71</b>	<b>49</b>	<b>120</b>

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPIC AND SUB-TOPICS TO BE COVERED	ACTIVITIES / PROJECTS / PRACTICAL EXPERIMENTS TO BE HELD / SPECIFIC ASSESSMENT TOOL(S) (SUGGESTED)	TESTS Periodic / Term / Pre-Board/ Revision/ Annual Exam
<b>TERM-1</b>					
APRIL	22	18T + 10P	<b>Unit 1: Data Handling using Pandas and Data Visualization</b> <b>Data Handling using Pandas – I</b> <ul style="list-style-type: none"> <li>Introduction to Python libraries – Pandas, Matplotlib.</li> <li>Data Structures in Pandas – Series and Data Frames</li> <li>Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing, and Slicing.</li> </ul>	Practice of topics and Practical programs.  Activities as specified in NCERT Textbook.	
JULY	25	21T + 10P	19. Data Frames: creation – from the dictionary of Series, list of dictionaries, Text / CSV files; display; iteration; 20. Operations on rows and columns: add, select, delete, rename; 21. Head and Tail functions; Indexing using Labels, Boolean Indexing.	The practice of topics and Practical programs. Activities as specified in NCERT Textbook.	<b>UT - 1</b>

AUGUST	26	18T + 14P	<p>13. Importing / Exporting Data between CSV files and Data Frames.</p> <p><b>Data Visualization</b></p> <p>14. Purpose of plotting; drawing and saving the following types of plots using Matplotlib – line plot, bar graph, and histogram.</p> <p>15. Customizing plots: adding labels, titles, and legend in plots.</p> <p><b>Unit 2: Database Query using SQL</b></p> <p>12. Math functions: POWER(), ROUND(), MOD()</p> <p>13. Text functions: UCASE() / UPPER(), LCASE() / LOWER(), MID() / SUBSTRING() / SUBSTR(), LENGTH(), LEFT(), RIGHT(), INSTR(), LTRIM(), RTRIM(), TRIM().</p> <p>13. Date Functions: NOW(), DATE(), MONTH(), MONTHNAME(), YEAR(), DAY(), DAYNAME().</p>	<p>The practice of topics and Practical programs.</p> <p>Activities as specified in the NCERT Textbook.</p>	UT - 2
			<b>TERM-2</b>		
SEPTEMBER	26	16T + 10P	<p>12. Aggregate Functions: MAX(), MIN(), AVG(), SUM(), COUNT(); using COUNT*).</p> <p>13. Querying and manipulating data using Group by, Having, and Order by clauses.</p> <p><b>Unit 3: Introduction to Computer Networks</b></p> <p>14. Introduction to networks, Types of networks: LAN, MAN, WAN</p> <p>15. Network Devices: modem, hub, switch, repeater, router, gateway</p> <p>16. Network Topologies: Star, Bus, Tree, Mesh</p> <p>17. Introduction to Internet, URL, WWW, and its applications – Web, email, Chat, VoIP.</p> <p>18. Website: Introduction, the difference between a website and webpage, static vs dynamic web page, web server, and hosting of a website.</p> <p>19. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons, plug-ins, cookies.</p>	<p>The practice of topics and Practical programs and SQL.</p> <p>Activities as specified in the NCERT Textbook</p>	
			OCTOBER & NOVEMBER	31	15T + 4P
DECEMBER	Revision	PB-1			
JANUARY	Revision, CBSE Practical Exam	PB-2			
FEBRUARY	Revision, CBSE Practical Exam				
MARCH-APRIL	CBSE Annual Exam				

**Note:** T stands for Theory periods and P stands for Practical periods. Please refer to the CBSE curriculum 2023–24 for further clarifications and alterations (if any).

### Class XII (Practical)

S.No.	Unit Name	Marks
1	Programs using Pandas and Matplotlib	8
2	SQL Queries	7
3	Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib, and 15 SQL queries must be included)	5
4	Project Work (using concepts learned in classes XI and XII)	5
5	Viva–Voce	5
	<b>Total</b>	<b>30</b>

#### SUGGESTED PRACTICAL LIST:

##### Data Handling

10. Create a panda's series from a dictionary of values and array.
11. Given a Series, print all elements above the 75th percentile.
12. Create a Data Frame for quarterly sales where each row contains the item category, item name, and expenditure. Group the rows by category and print the total expenditure per category.
13. Create a data frame for examination results and display row labels, column labels data types of each column, and the dimensions.
14. Filter out rows based on different criteria such as duplicate rows.
15. Importing and exporting data between pandas and CSV files.

##### Visualization

16. Given the school result data, analyze the performance of the students on different parameters, e.g., subject-wise or class-wise.
17. For the Data frames created above, analyze and plot appropriate charts with titles and legend.
18. Take data of your interest from an open source (e.g., data.gov.in), aggregate, and summarize it. Then plot it using different plotting functions of the matplotlib library.

##### Database Management System

14. Create a student table with the student id, name, and marks as attributes where the student id is the primary key.
15. Insert the details of a new student in the above table.
16. Delete the details of a student in the above table.
17. Use the select command to get the details of the students with marks more than 80.
18. Find the min, max, sum, and average of the marks in a student marks table.
19. Find the total number of customers from each country in the table (customer ID, customer name, country) using group by.
20. Write a SQL query to order the (student ID, marks) table in descending order of the marks.

### **Project Work**

The class project aims to create tangible and useful IT applications. The learner may identify a real-world problem by exploring the environment. E.g., Students can visit shops/business places, communities, or other organizations in their localities and inquire about the organization's functioning and how data are generated, stored, and managed. The learner can take data stored in CSV or database files, analyze using Python libraries, and generate appropriate charts to visualize.

If an organization maintains data offline, the learner should create a database using MySQL and store the data in tables. Data can be imported into Pandas for analysis and visualization.

Learners can use Python libraries of their choice to develop software for their school or any other social good. Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects. Teachers should take the necessary measures for this. Any resources (data, images, etc.) used in the project must be suitably referenced.

The project can be done individually or in groups of 2 to 3 students. Students should start the project at least 6 months before the submission deadline.

### **Note:**

Any changes in the syllabus, if announced by CBSE during the academic year 2023–24, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website.

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**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XII**

**SUBJECT: MATHEMATICS**

**SUBJECT CODE: 041**

UNIT	Name of The Units	No .of Periods	Marks
I	RELATIONS AND FUNCTIONS	30	08
II	ALGEBRA	50	10
III	CALCULUS	80	35
IV	VECTORS & THREE-DIMENSIONAL GEOMETRY	30	14
V	LINEAR PROGRAMMING	20	05
VI	PROBABILITY	30	08
	<b>TOTAL</b>	<b>240</b>	<b>80</b>
	<b>Internal Assessment (20Marks)</b>		<b>20</b>
	Unit Tests (Best 2 out of 3 tests conducted) ----10 Marks)  Mathematics Activities ----- (10 Marks)  The activities performed by the student throughout the year end record keeping ----- (05 Marks)  Assessment of the activity performed during the year end test ----- ----- (03 Marks)  Viva-voce ----- (02 Marks)		
	<b>Grand Total</b>		<b>100</b>



SPLIT-UP SYLLABUS

MONTH	No. of Days	No. of Periods	Main topic and sub-topics to be covered	Activities/ Projects/Practical Experiments to be Held/ Specific Assessment Tool(s)  (Suggested)
APRIL 2023	25	25	<p><b>UNIT II ALGEBRA</b></p> <p><b>3. MATRICES:</b> Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. On- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).</p> <p><b>4. DETERMINANTS:</b> Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix..</p>	<p><b>Activity -1</b> Word problems based on matrices. Formatting of matrix. Finding the solution by using matrix method.</p>
			Summer Break(1-05-2023 TO 29-6-23)	

JULY, 2023	26	15	<b>UNIT I (RELATIONS AND FUNCTIONS)</b> <b>1. RELATIONS AND FUNCTIONS</b> Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.	Activity -2 To demonstrate a function which is one - one not onto  Activity -3 To explore the principal value of the function $\sin^{-1}x$ using a unit circle
		15	<b>2. INVERSE TRIGONOMETRIC FUNCTIONS:</b> Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	
		20	<b>UNIT III-CALCULUS</b>  <b>5. CONTINUITY AND DIFFERENTIABILITY:</b>  Continuity and differentiability, chain rule, derivatives of inverse trigonometric functions like $\sin^{-1}x$ , $\cos^{-1}x$ and $\tan^{-1}x$ , derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.	
			UNIT TEST-1 FROM 17-7-23 TO 19-7-23  CHAPTERS 1,2,3,4	

AUGUST 2023	27	<p><b>10</b></p>	<p><b>6. APPLICATIONS OF DERIVATIVES:</b></p> <p>Applications of derivatives: rate of change of bodies, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).</p> <p><b>7. INTEGRALS:</b></p> <p>Integration as inverse process of differentiation. Integration of variety of functions by substitution, by partial fractions and by parts. Evaluation of simple integrals of the following types and Problems based on them.</p> $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}$ $\int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^2 + bx + c}} dx, \int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$ $\int \sqrt{ax^2 + bx + c} dx, \int (px + q)\sqrt{ax^2 + bx + c} dx$ <p>Basic properties of definite integrals and evaluation of definite integrals.</p>	<p>Activity -4 To find analytically the limit of function f(x) at x=c and also to check the continuity of the function at that point</p> <p>Activity -5 To Understand the concept of decreasing and increasing functions</p> <p>Activity -6 To understand the concepts of local minima, local maxima and point of inflection</p>
			<p><b>20</b></p>	
<p><b>UNIT TEST-2 FROM 21-8-23 TO 23-8-23</b> <b>CHAPTERS:5,6,7(UP TO 7.8)</b></p>				

SEPTIMBAR 2023	25	15	<p><b>8.APPLICATIONS OF THE INTEGRALS:</b></p> <p>Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only).</p> <p><b>9.DIFFERENTIAL EQUATIONS:</b></p> <p>Definition, order and degree, general and particular solutions of a differential equation.</p>	<p>Activity -7 To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner..</p>
		15  20	<p>. Solution of differential equations by method of separation of variables. Solutions of homogeneous differential equations of first order and first degree.</p> <p>Solutions of linear differential equation of the type <math>\frac{dy}{dx}+py=q</math>, where p and q are functions of x or constants.</p> <p><math>\frac{dx}{dy}+px=q</math>, where p and q are functions of y or constants.</p> <p><b>UNIT V</b></p> <p><b>12.LINEAR PROGRAMMING:</b></p> <p>Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).</p>	
			<p><b>TERM I EXAMINATION (3-10-23 TO 14-10-23)</b></p> <p><b>UPTO SEPTEMBER PORTION</b></p>	

OCTOBER2023	10	15	<p><b>UNIT:IV</b></p> <p><b>10.VECTOR ALGEBRA:</b></p> <p>Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.</p>	<p>Activity -8 To verify geometrically that <math>\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{b}</math></p>
		15	<p><b>11.THREE-DIMENSIONAL GEOMETRY:</b></p> <p>Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector</p>	

			equation of a line, skew lines, shortest distance between two lines. Angle between two lines.  (RETENTION IN AUTUMN BREAK MAY BE UTILISED)	
<b>Autumn Break (23-10-23 TO 15-11-23)</b>				
<b>NOV-23</b>	<b>15</b>	<b>30</b>	<b>13. PROBABILITY:</b>  Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.	Activity -10 To explain the computation of conditional  Probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.
<b>DECEMBER</b>	<b>26</b>	<b>REVISION</b>  <b>PRE BOARD-1 (05-12-23 TO 16-12-23)</b>		
<b>JANUARY</b>	<b>22</b>	<b>REVISION</b> <b>WINTER BREAK (13-01-24 TO 18-01-24)</b> <b>6 days winter break may be Retention for both students and Teachers</b> <b>PRE BOARD-2 (11-1-24 TO 23-1-24)</b>		
<b>FEBRUARY</b>	<b>25</b>	<b>REVISION (PRACTICE PAPERS)</b>  <b>CBSE EXAMS AS PER THE SCHEDULE</b>		
<b>MARCH</b>	<b>2024</b>	<b>CBSE EXAMS AS PER THE SCHEDULE</b>		

**Prescribed Books:**

11. Mathematics Part I - Textbook for Class XII, NCERT Publication
12. Mathematics Part II - Textbook for Class XII, NCERT Publication
13. Mathematics Exemplar Problem for Class XII, Published by NCERT
14. Mathematics Lab Manual class XII, published by NCERT  
<http://www.ncert.nic.in/exemplar/labmanuals.html>

**Note:**

41. Any Changes in the syllabus, if announced by CBSE during the academic year 2022-23, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard Principals and teachers will always remain in touch with CBSE and its website.

42. The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class XII, published by CBSE. Throughout the year any 10 activities shall be performed by the student from the activities given in the Lab Manual.

NAVODAYA VIDYALAYA SAMITI

CLASS: XII

SUBJECT: PHYSICS

SUBJECT CODE: 042

Unit No	Name of The Chapter/ unit	Periods	Marks
1	<b>Electrostatics</b>		
	Chapter-1: Electric charges and Fields	26	16
	Chapter -2:Electrostatic Potential and Capacitance		
2	<b>Current Electricity</b>		
	Chapter -3: Current Electricity	18	
3	<b>Magnetic effects of current and Magnetism</b>		
	Chapter-4: Moving Charges and Magnetism	25	
	Chapter-5: Magnetism and Matter		
4	<b>Electromagnetic Induction and Alternating Currents</b>		
	Chapter-6: Electromagnetic Induction	24	17
	Chapter-7:Alternating Currents		
5	<b>Electromagnetic waves</b>		
	Chapter-8: Electromagnetic Waves	04	
6	<b>Optics</b>		
	Chapter-9: Ray Optics and Optical Instruments	30	18
	Chapter-10: Wave Optics		
7	<b>Dual Nature of Radiation and Matter</b>		
	Chapter-11: Dual Nature of Radiation and Matter	8	
8	<b>Atoms and Nuclei</b>		
	Chapter-12: Atoms	15	12
	Chapter-13: Nuclei		
9	<b>Electronic Devices</b>		
	Chapter-14: semiconductor Electronics: Materials,Devices and simple circuits	10	7
	<b>Total</b>	160	70
	Practical/Internal Assessment		30
	Grand Total		100

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
APRIL 2023	22	26	16	<p><b>Unit I: Electrostatics:</b></p> <p><b>Chapter–1: Electric Charges and Fields</b> Electric charges, Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).</p> <p><b>Chapter–2: Electrostatic Potential and Capacitance</b> Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only)</p>	<p><b>Experiments: 1&amp;2</b> ( 1. Determine Resistivity of wires using V-I curve 2. Determine the Resistance of a given wire using Meter bridge )</p> <p><b>Activity:1</b> To assemble the house hold circuit comprising 3 bulbs, 3 switches , a fuse and a power source</p>	<p><b>Assignment - 1</b> (Related to Electrostatics)</p>



Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
JULY 2023	24	18		<p><b>Unit II: Current Electricity:</b></p> <p><b>Chapter–3: Current Electricity</b></p> <p>Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge</p>	<p><b>Experiments: 3&amp;4</b></p> <p>3. Verify the laws of combination of R's in series or Parallel using Meter bridge</p> <p>4. Determine the resistance of a galvanometer by half deflection method and to find its figure of merit</p>	<p><b>Unit Test-1</b></p> <p><b>Assignment-2</b> Based on Current Electricity</p>
		17		<p><b>Unit III: Magnetic Effects of Current and Magnetism</b></p> <p><b>Chapter–4: Moving Charges and Magnetism</b> Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere.</p>	<p><b>Activity:2</b> To study the variation of potential drop with length of a wire for a steady current</p>	
		12				

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/ Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
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AUGUST 2023	25	13	<p>Torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter. Chapter–5: Magnetism and Matter Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties</p> <p><b>Chapter–5: Magnetism and Matter</b> Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of Materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of Temperature on magnetic properties</p>	<p><b>Experiments : 5&amp;6</b> ( 5. Find the refractive index of the material of a glass slab using travelling microscope 6. .Find the focal length of a concave mirror u.. v method )</p> <p><b>Activity: 3&amp;4</b> To measure the resistance ,voltage (AC/DC/), Current (AC/DC) and check continuity of a given circuit using multi meter To identify a diode , LED, a resistor and a capacitor from a mixed collection of such items .</p>	Unit Test-2  <b>Assignment-3</b> (Based on Magnetism)
		18	<p><b>Unit IV: Electromagnetic Induction and Alternating Currents</b> <b>Chapter–6:Electromagnetic induction;</b> Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction <b>Chapter–7: Alternating Current:</b> Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance.</p>		

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
SEPTEMBER 2023	24	6	18	power in AC circuits, power factor, wattless current. AC generator, Transformer	<b>Experiment:7&amp; 8</b>  7. Find the focal length of a convex lens by plotting $u-v$ or $1/u - 1/v$ graph  8. Find the focal length of a concave lens using convex lens – contact method  ( As per the availability of apparatus teachers can arrange other experiments from the list given by CBSE)  <b>Activities: 5</b> Observe the diffraction of a single slit	<b>Assignment -4:</b> Based on optics
		4		<b>Unit V: Electromagnetic waves</b> <b>Chapter-8: Electromagnetic Waves</b> Basic idea of displacement Current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only) Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.		
		20		<b>Unit VI: Optics</b> <b>Chapter-9: Ray Optics and Optical Instruments</b> <b>Ray Optics:</b> Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers		

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
OCTOBER 2023	16	10		<p><b>Chapter–10: Wave optics:</b> Wave front and Huygen’s principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen’s principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).</p>	<p><b>Activity:6</b> Observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab</p>	<p><b>Term Test-1</b></p>
		8	12	<p><b>Unit VII: Dual Nature of Radiation and Matter</b> <b>Dual Nature of Radiation and Matter</b> <b>Chapter–11: Dual nature of radiation:</b> Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect. Matter waves-wave nature of particles, de-Broglie relation.</p>		
		2		<p><b>Unit VIII: Atoms And Nuclei</b> <b>Chapter–12: Atoms:</b> Alpha-particles scattering experiment; Rutherford's model of atom;</p>		

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practicals/ Projects to be given	Unit Tests /Formative Tests/ Assignments
NOVEMBER 2023		13		Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in this orbit, of hydrogen line spectra (qualitative treatment only).  <b>Chapter-13: Nuclei:</b> Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.  <b>Unit IX: Electronic Devices</b> <b>Chapter-14: Semiconductor Electronics: Materials,</b>  <b>Devices and Simple Circuits:</b> Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode –diode as a rectifier.	<b>Project work :</b> From the given list of CBSE  Completion of left over practicals & Activities	
	20	10	07			
December 2023				REVISION & PRE BOARD -1	Completion of left over practicals	
January 2024				CBSE Practical and PRE BOARD -2		
February 2024				CBSE Practical and Revision		
February-March 2024				CBSE Examinations 2024		

### PRACTICALS

Total Periods 60

The record to be submitted by the students at the time of their annual examination has to include:

9. Record of at least 8 Experiments [with 4 from each section], to be performed by the students.
10. Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students.
11. The Report of the project carried out by the students.

### EVALUATION SCHEME

MAX.MARKS: 30

Time 3 hours

Two experiments one from each section	7+7 Marks
Practical record [experiments and activities]	5 Marks
One activity from any section	3 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks
Total	30 marks

### SECTION-A

#### Experiments

- a. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.
- b. To find resistance of a given wire / standard resistor using metre bridge.
- c. To verify the laws of combination (series) of resistances using a metre bridge.

**OR**

To verify the laws of combination (parallel) of resistances using a metre bridge  
To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.

- d. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

**OR**

To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same

- e. To find the frequency of AC mains with a Sono meter.

#### Activities

6. To measure the resistance and impedance of an inductor with or without iron core.
7. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multi meter.
8. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
9. To assemble the components of a given electrical circuit.
10. To study the variation in potential drop with length of a wire for a steady current.
11. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct

the circuit and also the circuit diagram.

## SECTION-B

### Experiments

- To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length.
- To find the focal length of a convex mirror, using a convex lens.
- To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  and  $1/v$ .
- To find the focal length of a concave lens, using a convex lens.
- To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
- To determine refractive index of a glass slab using a travelling microscope.
- To find the refractive index of a liquid using convex lens and plane mirror.
- To find the refractive index of a liquid using a concave mirror and a plane mirror.
- To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.

### Activities

- To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
- Use of multi meter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order.
- To study effect of intensity of light (by varying distance of the source) on an LDR.
- To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
- To observe diffraction of light due to a thin slit.
- To study the nature and size of the image formed by a (i) convex lens, or (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
- To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

### Suggested Investigatory Projects

- To study various factors on which the internal resistance/EMF of a cell depends.
- To study the variations in current flowing in a circuit containing an LDR because of a variation in
  - the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
  - the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.
- To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equi convex lens (made from a glass of known refractive index) and an adjustable object needle.
- To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.
- To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.
- To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.
- To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.
- To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.

Practical Examination for Visually Impaired Students of Classes XII Evaluation Scheme

Time 2 hours

Max. Marks: 30



Identification/Familiarity with the apparatus	5 marks
Written test (based on given/prescribed practicals)	10 marks
Practical Record	5 marks
Viva	10 marks
Total	30 marks

### General Guidelines

2. The practical examination will be of two-hour duration.
3. A separate list of ten experiments is included here.
4. The written examination in practical for these students will be conducted at the time of practical examination of all other students.
5. The written test will be of 30 minutes duration.
6. The question paper given to the students should be legibly typed. It should contain a total of 15 practical skill based very short answer type questions. A student would be required to answer any 10 questions.
7. A writer may be allowed to such students as per CBSE examination rules.
8. All questions included in the question papers should be related to the listed practical. Every question should require about two minutes to be answered.
9. These students are also required to maintain a practical file. A student is expected to record at least five of the listed experiments as per the specific instructions for each subject.
10. These practical should be duly checked and signed by the internal examiner.
11. The format of writing any experiment in the practical file should include aim, apparatus required, simple theory, procedure, related practical skills, precautions etc.
12. Questions may be generated jointly by the external/internal examiners and used for assessment.
13. The viva questions may include questions based on basic theory/principle/concept, apparatus/ materials/chemicals required, procedure, precautions, sources of error etc.

### Class XII

#### A. Items for Identification/ familiarity with the apparatus for assessment in practical (All experiments)

Meter scale, general shape of the voltmeter/ammeter, battery/power supply, connecting wires, standard resistances, connecting wires, voltmeter/ammeter, meter bridge, screw gauge, jockey Galvanometer, Resistance Box, standard Resistance, connecting wires, Potentiometer, jockey, Galvanometer, Leclanche cell, Daniell cell [simple distinction between the two vis-à-vis their outer (glass and copper) containers], rheostat connecting wires, Galvanometer, resistance box, Plug-in and tapping keys, connecting wires battery/power supply, Diode, Resistor (Wire-wound or carbon ones with two wires connected to two ends), capacitors (one or two types), Inductors, Simple electric/electronic bell, battery/power supply, Plug-in and tapping keys, Convex lens, concave lens, convex mirror, concave mirror, Core/hollow wooden cylinder, insulated wire, ferromagnetic rod, Transformer core, insulated wire.

### List of Practicals

- To determine the resistance per cm of a given wire by plotting a graph between voltage and

current.

- To verify the laws of combination (series/parallel combination) of resistances by Ohm's law.
- To find the resistance of a given wire / standard resistor using a meter bridge.
- To determine the resistance of a galvanometer by half deflection method.
- To identify a resistor, capacitor, inductor and diode from a mixed collection of such items.
- To observe the difference between
  - a convex lens and a concave lens
  - a convex mirror and a concave mirror and to estimate the likely difference between the power of two given convex /concave lenses.
- To design an inductor coil and to know the effect of
  - change in the number of turns
  - Introduction of ferromagnetic material as its core material on the inductance of the coil.
- To design a (i) step up (ii) step down transformer on a given core and know the relation between its input and output voltages.

Note: The above practicals may be carried out in an experiential manner rather than recording observations.

Prescribed Books:

14. Physics, Class XI, Part -I and II, Published by NCERT.
15. Physics, Class XII, Part -I and II, Published by NCERT.
16. Laboratory Manual of Physics for class XII Published by NCERT.
17. The list of other related books and manuals brought out by NCERT (consider multimedia also).

Note: The content indicated in NCERT textbooks as excluded for the year 2023-24 is not to be tested by schools and will not be assessed in the Board examinations 2023-24.

#### QUESTION PAPER DESIGN

Theory (Class: XII)

Maximum Marks: 70

Duration: 3 hrs.

S.No.	Typology of Questions	Total Marks	Approximate Percentage
1	Remembering: Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Understanding: Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	27	38 %
2	Applying: Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	22	32%

3	<p>Analysing: Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations</p> <p>Evaluating: Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.</p> <p>Creating: Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.</p>	21	30%
	Total Marks	70	100
	Practical	30	
	Gross Total	100	

Note:

*The above template is only a sample. Suitable internal variations may be made for generating similar templates keeping the overall weightage to different form of questions and typology of questions same.*

*For more details kindly refer to Sample Question Paper of class XII for the year 2023-24 to be published by CBSE at its website.*

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