



Bal Bharati
PUBLIC SCHOOL

Solan

ANNUAL PEDAGOGY PLAN

(2024-25)

Class: VIII



<https://bbpssolan.balbharati.org>

SUBJECT: - ENGLISH

BOOKS					
1) Class book –Longman New Images Next – Pearson 2) Enrichment Reader – New Images Next-Pearson					
MONTH	NO. OF WORKING DAYS	CONTENT	LEARNING OUTCOMES	SKILL	TEACHING METHOD
March	22	<p>Class Book The three questions The Commentators</p> <p>Enrichment Reader: A Short Monsoon Diary</p> <p>Grammar: Modals, Editing</p> <p>Writing Skill: Notice writing</p>	<ul style="list-style-type: none"> • Responds to a variety of questions on familiar and unfamiliar texts verbally and in writing. • Uses synonyms, antonyms appropriately deduce word meanings from clues in context while reading a variety of texts. • Refers to dictionary to check meaning and spelling, and to suggested websites for information. • Reading to understand the text. Identify parts of speech, idioms. • Appreciate literary devices. 	<ul style="list-style-type: none"> • Evaluate • Analyze • Recall • Extrapolate • Think Critically 	Character sketch, brainstorming Extempore Self-assessment Locate sequence of ideas, events and identify main idea of a story/poem through various types of comprehension questions. Use dictionary as a reference book for

			<ul style="list-style-type: none"> • Writes grammatically correct sentences for a variety of situations, using noun, • To enable the students to understand the passage and grasp its meaning 		
April	22	<p>Class Book A Robot in the House Communication</p> <p>Enrichment Reader: IF</p> <p>Grammar: Tenses and Verb</p> <p>Writing Skill: Diary entry</p>	<ul style="list-style-type: none"> • To enable the students to understand the passage and grasp its meaning • To enable the students to recite the poem with correct pronunciation • Reads a variety of texts in English / Braille and identifies main ideas, characters, sequence of ideas and events and relates with his/her personal experiences. • Participates in activities in English like role play, group discussion, debate, etc. • Look at cartoons/ pictures/comic strips with or without words, and talk/write about them. • Drafts, revises and writes short paragraphs based on verbal clues. 	<ul style="list-style-type: none"> • Critical Thinking • Listening • Speaking 	<p>Discuss the ideas of the text for critical thinking. Interpret tables, charts, diagrams and maps and write a short paragraph Explanation Extempore</p>

May	18	<p>Class Book The Tea Kettle One Stranded Bus and a pond</p> <p>Enrichment Reader: The Guests A promise not Kept</p> <p>Grammar: Article and Voice</p> <p>Writing Skill: Picture Composition</p>	<ul style="list-style-type: none"> • To enable the students to understand the passage and grasp its meaning • Reads a variety of texts in English and identifies main ideas, characters, sequence of ideas and events and relates with his/her personal experiences • Uses meaningful sentences to describe / narrate factual / imaginary situations in speech and writing. • Writes grammatically correct sentences for picture composition. 	<ul style="list-style-type: none"> • Evaluate • Analyze • Extrapolate • Problem solving 	<p>Language Game Worksheets Newspaper activity various types of writing such as messages, notices, letters, report, biography, diary entry, travelogue etc.</p>
June	18	<p>Class Book A Nation's Strength</p> <p>Enrichment Reader: Ode to Autumn</p> <p>Grammar: Integrated Grammar</p> <p>Writing Skill: Descriptive writing</p>	<ul style="list-style-type: none"> • To enable the students to recite the poem with correct pronunciation • To enable the students to integrate skills of different subjects and enhance their creativity. 	<ul style="list-style-type: none"> • Understanding • Applying • Evaluating 	
July	18	<p>Class Book The Eyes Have it The Nightingale and the glow worm</p>	<ul style="list-style-type: none"> • To enable the students to integrate skills of different subjects and enhance their creativity. 	<ul style="list-style-type: none"> • Remembering • Understanding • Inference • Evaluating 	<p>To learn the art of story telling Role Play Dialogue Conversation</p>

		<p>Enrichment Reader: Book Shop Memories O Captain! My Captain</p> <p>Grammar: Pronoun, Preposition</p> <p>Writing Skill: Speech writing</p>	<ul style="list-style-type: none"> • Poem recitation with correct pronunciation • To learn the poetic devices and to inculcate the values of love and respect for one's own country. • Summarize orally the stories, poems and events that he/she has read or heard. • Locate sequence of ideas, events and identify main idea of a story/poem through various types of comprehension questions 		<p>Extempore Peer assessment Worksheets Newspaper article</p>
August	24	<p>Class Book The Open window A Remarkable Rocket</p> <p>Enrichment Reader: A Telephonic Conversation</p> <p>Grammar: Editing and gap filling</p> <p>Writing Skill: Picture Composition</p>	<ul style="list-style-type: none"> • To enable the students to understand the passage and grasp its meaning • Reads a variety of texts in English and identifies main ideas, characters, sequence of ideas and events and relates with his/her personal experiences. • Uses meaningful sentences to describe / narrate factual / imaginary situations in speech and writing. • Listen to descriptions and identify objects Infer the meaning from the text 	<ul style="list-style-type: none"> • Understanding • Applying • Analyzing • Creating • Evaluating 	<p>Diary entries Listening comprehension Pair/Group work Script writing Role play Word wall/ Puzzle</p>

			<ul style="list-style-type: none"> Understand and practice the gap filling Observing and writing a paragraph on Picture composition. 		
September	18	<p>Class Book The Human Seasons Journey to the Sundarbans</p> <p>Enrichment Reader: Lord Ullin's Daughter</p> <p>Grammar: Conjunction, Preposition</p> <p>Writing Skill: E-Mail writing</p>	<ul style="list-style-type: none"> To enable the students to understand the passage and grasp its meaning Responds to a variety of questions on familiar and unfamiliar texts verbally and in writing. Uses synonyms, antonyms appropriately deduce word meanings from clues in context while reading a variety of texts. Comprehend the use of Conjunction Identify and differentiate between types of Preposition Drafts, revises and writes E-Mail appropriate format 	<ul style="list-style-type: none"> Remembering Creating Inference Applying Problem solving 	<p>Peer assessment Poetry writing Poster Making Written assignments Practice question Explanation and Discussion</p>
October	20	<p>Class Book The Way through the Woods From Story Telling to Film - Making A Comedy of Manners</p>	<ul style="list-style-type: none"> To enable the students to understand the passage and grasp its meaning Write a biographical sketch Understand imagery and infer from the text 	<ul style="list-style-type: none"> Evaluate Analyze Extrapolate Problem solving 	<p>Story telling Book review writing Written Assignments Worksheets Character dramatization Listen to English news (TV, Radio) as a resource</p>

		Enrichment Reader: The Rehearsal Grammar: Modals Writing Skill: Story writing	<ul style="list-style-type: none"> • Express opinions • Understand and analyze the correct usage of modals • Different types of modals Transforming sentences • To enable the students to write creatively. 		to develop listening comprehension.
November	22	REVISION			
December	13	FINAL TERM			

विषय- हिंदी

- पाठ्यपुस्तकें: वसंत भाग-III
- नवीन शिक्षार्थी हिंदी व्याकरण तथा रचना

महीने	कार्य दिवसों की संख्या	विषयवस्तु	शिक्षण उद्देश्य	कौशल विधि	शिक्षण युक्तियाँ
मार्च	22	पाठ 2 :लाख की चूड़ियाँ पाठ 3 :बस की यात्रा व्याकरण :भाषा, बोली लिपि और व्याकरण	<ul style="list-style-type: none"> • गाँव और शहरीकरण के विकास में ग्रामोद्योगों का क्या महत्व रहेगा ? • जीवन मूल्य समयानुसार प्रत्येक वस्तु का नवीनकरण की आवश्यकता 	<ul style="list-style-type: none"> • कल्पना कौशल • वाचन कौशल • पठन कौशल • लेखन कौशल 	<ul style="list-style-type: none"> • चूड़ियों से विभिन्न आकर के चीजों को बनाना • बसयात्रा और अन्य वाहनों पर चर्चा
अप्रैल	22	पाठ 4 :दीवानों की हस्ती पाठ 6 :भगवान के डाकिये व्याकरण वर्ण विचार :, शब्द विचार -, उपसर्ग एवं प्रत्यय	<ul style="list-style-type: none"> • हमें हमेशा दूसरों की मदद करनी चाहिये • जीवन मूल्यों विश्वबन्धुत्व की भावना का विकास 	<ul style="list-style-type: none"> • श्रवण कौशल- • वाचन कौशल • पठन कौशल • चित्र चित्रण 	<ul style="list-style-type: none"> • जीवन के विभिन्न पहलूओं पर चर्चा
मई	18	पाठ 7 :क्या निराश हुआ जाए अपठित गद्यांश, अनुच्छेद लेखन ,मुहावरे	<ul style="list-style-type: none"> • जीवन के मानवीय मूल्य भले ही दब गए हों पर उन्हें बनाए रखते हुए हमें आशावादी दृष्टिकोण अपनाना चाहिए । वर्तमान परिस्थिति में भी हमें निराश नहीं होना चाहिए 	<ul style="list-style-type: none"> • पठन कौशल • लेखन कौशल • श्रवण कौशल 	<ul style="list-style-type: none"> • घटना वर्णन छात्र के – जीवन का कठिन समय

जून	18	पाठ 8 :यह सबसे कठिन समय नहीं व्याकरण(भेद) काल ;, औपचारिक पत्र	<ul style="list-style-type: none"> जीवनमूल्यों में निराश न होकर अपने लक्ष्य की ओर बढ़ना 	<ul style="list-style-type: none"> पठन कौशल श्रवण कौशल 	<ul style="list-style-type: none"> दिन के चारों पहरों के नाम बचपन के किसी अनुभव के बारे में से चित्रचित्रण-
जुलाई	18	पाठ 9 :कबीर की सखियाँ व्याकरण ;, कारक, संज्ञा , संवाद लेखन	<ul style="list-style-type: none"> कबीर के दोहों से नीति परक तथ्यों पर अपने विचार व्यक्तकरेंगे किसी की शक्ति को कम समझकर उसकी उपेक्षा नहीं करनी चाहिए । 	<ul style="list-style-type: none"> पठन कौशल लेखन कौशल श्रवण कौशल 	<ul style="list-style-type: none"> पीपीटी प्रदर्शन अपने मन पसंद किन्हीं पांच नीतिपरक दोहे सृजनात्मक रूप में प्रस्तुत करना
अगस्त	24	पाठ 8 :सूरदास के चरित पाठ 9:जहाँ पहिया है व्याकरण कर्म के) क्रिया : विलोम शब्द (आधार पर, समास, विज्ञापन लेखन	<ul style="list-style-type: none"> जीवन मूल्यों वात्सल्यता का अर्थ जानेंगे स्त्री सशक्तिकरण पर विचार रखेंगे 	<ul style="list-style-type: none"> पठन कौशल लेखन कौशल श्रवण कौशल 	<ul style="list-style-type: none"> कृष्ण की बाल लीलाएं सुनाएंगे पीपीटी किसी एक मेहनती महिला की घटना का वर्णन
सितम्बर	18	पाठ 10:अकबरी लोटा व्याकरण वाक्यांशों के लिए : एक शब्द, विराम चिन्ह,	<ul style="list-style-type: none"> जीवन में अपने स्वार्थ के लिए किसी को मुखर्ष नहीं बनाना चाहिए 	<ul style="list-style-type: none"> लेखन कौशल श्रवण कौशल वाचन कौशल 	<ul style="list-style-type: none"> संग्राहलय के बारे में जानकारी एकत्रित करना
अक्टूबर	20	पाठ 11 :पानी की कहानी पाठ 12 :बाज और सांप व्याकरण वर्तनी शुद्धिकरण ;, अपठित गद्यांश, लोकोक्तियाँ	<ul style="list-style-type: none"> पानी का महत्व तथा मूल्यों को जानेगें 	<ul style="list-style-type: none"> आदर्श तथा सस्वर वाचन कौशल श्रवण कौशल 	<ul style="list-style-type: none"> वाटर साइकल का चित्र कहानी लेखन
नवम्बर	22	पुनरावृत्ति			
दिसम्बर	13	वार्षिक परीक्षा			

SUBJECT: - MATHEMATICS

Month	No. of Working Days	Content	Learning Outcome: Students will be able to:	Skill	Teaching Methodology
Feb/March	32	<p>Chapter 1: Rational Numbers</p> <p>Chapter 2: Linear Equations in One Variable</p>	<ul style="list-style-type: none"> • Recall the definition and operations on rational numbers • Explore the properties of rational numbers • Recall the simple equations • Solve Equations having the Variable on both Sides • Reduce Equations to Simpler Form 	<ul style="list-style-type: none"> • Recall • Analyze • Critical Thinking • Logical Reasoning • Participation in Class • Discussion • Critical Thinking • Application 	<p>Collaborative learning, guided discussion, peer teaching, problem solving with examples</p> <p>Guided discussion, peer teaching, problem solving with examples</p>

		<p>Chapter 3: Understanding Quadrilateral</p> <p>Chapter 4: Data Handling</p>	<ul style="list-style-type: none"> • Draw the curves • Differentiate different types of given polygons • Prove the angle sum property of quadrilateral • Verify that sum of exterior angles of a polygon is 360° • Differentiate among different types of quadrilaterals • Recall the pictograph, bar graph, double bar graph etc. to represent data (Graphical Representation) • Convert the given information in fractions or percentages of whole set • Draw the pie chart • Enlist all the outcomes of an 	<ul style="list-style-type: none"> • Logical Reasoning • Analyze • Creativity • Presentation • Synthesizing • Critical Thinking • Organizing • Evaluate 	<p>Collaborative learning, guided discussion, activity method, Induction</p> <p>ACTIVITY: To verify that the diagonals of a rectangle are equal.</p> <p>Guided discussion, peer teaching, collaborative learning, problem solving with examples</p>
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			experiment and write their respective probabilities		
April	22	<p>Chapter 5: Squares and Square Roots</p> <p>Chapter 6: Cubes and Cube Roots</p>	<ul style="list-style-type: none"> Express a square natural number n as $n = m * m$ (m is an integer) Enlist the properties of square numbers Find the patterns in square numbers Find the square root of a number <ul style="list-style-type: none"> Express a cube natural number n as $n = m * m * m$ Explore the properties of cube numbers Find the patterns in cube numbers Find the cube root of a number 	<ul style="list-style-type: none"> Interpretation Participation in Class Discussion Observation and critical thinking Computation with accuracy <ul style="list-style-type: none"> Interpretation Participation in Class Discussion Observation and critical thinking Computation with accuracy 	<p>Activity Method, guided discussion, peer Teaching, problem solving with examples</p> <p>Problem Solving, guided discussion, peer teaching</p>

May/June	36	Chapter 7: Comparing Quantities	<ul style="list-style-type: none"> Recall Ratios and Percentages Find increase or decrease percent Calculate discount Estimate in percentage Find Sales Tax /Value added Tax/Goods and Services Tax Differentiate between simple interest and compound interest 	<ul style="list-style-type: none"> Application Computation with accuracy Logical reasoning Critical Thinking 	<p>Guided discussion, problem solving, induction</p> <p>Activity: To derive the formula for area of parallelogram using colored paper</p>
		Chapter 8: Algebraic expressions and identities	<ul style="list-style-type: none"> Recall Addition and Subtraction of Algebraic Expressions Find the product of polynomials 	<ul style="list-style-type: none"> Analysis and Synthesis Application Computation with accuracy 	<p>Guided discussion, collaborative learning, peer teaching, problem solving</p>
July	18	Chapter 10: Exponents and powers			

			<ul style="list-style-type: none"> • Write multiplicative inverse of the given numbers in exponential form • Derive the laws of exponents • Evaluate and simplify the expressions involving exponents • Use the exponents to express small numbers in standard form 	<ul style="list-style-type: none"> • Critical Thinking • Synthesis • Computation with accuracy 	Problem solving, Induction method, collaborative learning
		<p>Chapter 11: Direct and inverse proportions</p>	<ul style="list-style-type: none"> • Observe the change in one quantity on bringing the change in the other. • Establish the relation between two quantities • Solve the questions based on finding the unknown quantity 	<ul style="list-style-type: none"> • Critical Thinking • Synthesis • Computation with accuracy • Conversion of units 	Guided discussion with examples, collaborative learning, problem solving

			<ul style="list-style-type: none"> • Inter conversion of units of a quantity 		
August/September	42	Chapter 12: Factorization	<ul style="list-style-type: none"> • Recall to write factors of a monomial • Write common factors of 2 monomials factorize by regrouping of terms of a polynomial • Factorize the polynomial by using the identities • Divide the polynomial by a monomial (or polynomial) by cancelling common factors 	<ul style="list-style-type: none"> • Analysis and Synthesis • Application • Computation with accuracy • Logical Reasoning 	Guided discussion, peer teaching, collaborative Learning, problem solving with examples
October	20	Chapter 13: Introduction to Graphs	<ul style="list-style-type: none"> • Cartesian system • A line graph Some Applications 	<ul style="list-style-type: none"> • Understanding • Application • Visualization 	Peer teaching, collaborative learning

		Chapter 9: Mensuration	<ul style="list-style-type: none"> • Learn about • Area of a Polygon • Visualize different surfaces of a solid to calculate its surface area (cuboid, cube and cylinder) • Identify real life examples of cuboid, cube and cylinder • Derive the formulae for volume of cuboid, cube and cylinder 	<ul style="list-style-type: none"> • Application, • Visualization • Computation with accuracy • Logical Reasoning • Critical Thinking 	<p>Guided discussion, induction, problem solving, collaborative learning</p> <p>Activity: To draw solids (cubes and cuboids) made by unit cubes on isometric dot sheet</p>
November	22	REVISION			
December	13	FINAL TERM			

SUBJECT: - SCIENCE

Month	No. of Working Days	Content	Learning Outcome	Skills	Teaching Methodology
March	22	<p>Ch. 1: Crop Production And Management</p> <p>1.1 Agricultural Practices 1.2 Basic Practices of Crop Production 1.3 Preparation of Soil 1.4 Sowing 1.5 Adding Manure and Fertilisers 1.6 Irrigation 1.7 Protection from Weeds 1.8 Harvesting 1.9 Storage 1.10 Food from Animals</p> <p>Ch. 3: Coal and Petroleum</p> <p>3.1 Coal 3.2 Petroleum 3.3 Natural Gas 3.4 Some Natural Resources are Limited</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Grasp the significance of crops as a vital source of food, fiber, and other essential products for human beings. • Learn about various agricultural practices involved in crop production, • Understand the concept of crop rotation and its benefits <ul style="list-style-type: none"> • Learn various products derived from petroleum • Learn environmental impact of petroleum extraction, refining, and usage 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making. ➤ Problem Solving 	<ul style="list-style-type: none"> ✚ Demonstration cum lecture method ✚ Guided Discussion ✚ Activity based teaching ✚ Problem solving based learning ✚ 5 E's ✚ Collaborative Learning
April	22	<p>Ch. 2: Microorganisms: Friend and Foe</p>	<ul style="list-style-type: none"> • Understand the basic definition of 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking 	

		<p>2.1 Microorganisms 2.2 Where do Microorganisms Live? 2.3 Microorganisms and Us 2.4 Harmful Microorganisms 2.5 Food Preservation 2.6 Nitrogen Fixation 2.7 Nitrogen cycle</p> <p>Lab Activity To draw a schematic flow chart of nitrogen cycle</p> <p>Ch. 11: Chemical Effects of Electric Current 11.1 Do Liquids Conduct Electricity? 11.2 Chemical Effects of Electric Current 11.3 Electroplating</p> <p>Lab Activity To study the Electrolysis of water.</p>	<p>microorganisms and their characteristics</p> <ul style="list-style-type: none"> • Learn different types of microorganisms, including bacteria, viruses, fungi, protozoa, and algae. • Learn ecological significance of microorganisms, their role in nutrient cycling, <ul style="list-style-type: none"> • Understand the basic concept of electric current and its ability to produce various effects. • About the process of Electrolysis. • Understand the concept of Electroplating, which is the deposition of a layer of metal onto an object using an electric current. 	<ul style="list-style-type: none"> ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Problem solving ➤ Decision making 	<ul style="list-style-type: none"> ✚ Demonstration cum lecture method ✚ Guided Discussion ✚ Activity based teaching ✚ Problem solving based learning ✚ 5 E's ✚ Collaborative Learning
May	18	Ch. 7: Reaching the age of Adolescence		➤ Analysis.	

		<p>7.1 Adolescence and Puberty 7.2 Changes at Puberty 7.3 Secondary Sexual Characters 7.4 Role of Hormones in Initiating Reproductive Function 7.5 Reproductive Phase of Life in Humans 7.6 How is the Sex of the Baby Determined? 7.7 Hormones other than Sex Hormones 7.8 Role of Hormones in Completing the Life History of Insects and Frogs 7.9 Reproductive Health</p>	<ul style="list-style-type: none"> • Understand the physical changes that occur during adolescence, including the onset of puberty, growth spurts, development of secondary sexual characteristics. • Learn about the significance of personal hygiene and self-care during adolescence • Develop an understanding and acceptance of the physical and emotional changes that occur during adolescence 	<ul style="list-style-type: none"> ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making ➤ Problem Solving 	<ul style="list-style-type: none"> ✚ Demonstration cum lecture method ✚ Guided Discussion ✚ Activity based teaching ✚ Problem solving based learning ✚ 5 E's ✚ Collaborative Learning
June	18	<p>Ch. 6: Reproduction in Animals 6.1 Modes of Reproduction 6.2 Sexual Reproduction 6.3 Asexual Reproduction</p> <p style="text-align: center;">Lab Activity To study (a) Binary fission in Amoeba (b) Spore formation in Rhizopus with the help of prepared slides</p>	<ul style="list-style-type: none"> • Understand the two main types of reproduction in animals: Sexual and Asexual • Learn about different reproductive strategies adopted by animals, including internal fertilization and external fertilization. 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making ➤ Problem Solving 	<ul style="list-style-type: none"> ✚ Demonstration cum lecture method ✚ Guided Discussion ✚ Activity based teaching ✚ Problem solving based learning ✚ 5 E's ✚ Collaborative Learning

		<p>Ch5: Conservation of Plants and Animals</p> <p>5.1 Deforestation and Its Causes</p> <p>5.2 Consequences of Deforestation</p> <p>5.3 Conservation of Forest and Wildlife</p> <p>5.4 Biosphere Reserve</p> <p>5.5 Flora and Fauna</p> <p>5.6 Endemic Species</p>	<ul style="list-style-type: none"> • Understand the concept of biodiversity and its importance in maintaining a healthy and balanced ecosystem • Learn about different conservation measures and strategies aimed at protecting plants and animals. 		
July	18	<p>Ch5: Conservation of Plants and Animals (Cont.)</p> <p>5.7 Wildlife Sanctuary</p> <p>5.8 National Park</p> <p>5.9 Red Data Book</p> <p>5.10 Migration</p> <p>5.11 Recycling of Paper</p> <p>5.12 Reforestation</p> <p>Ch. 10: Sound</p> <p>10.1 Sound is Produced by a Vibrating Body</p> <p>10.2 Sound Produced by Humans</p> <p>10.3 Sound Needs a Medium for Propagation</p> <p>10.4 We Hear Sound through Our Ears</p> <p>10.5 Amplitude, Time Period and Frequency of a Vibration</p> <p>10.6 Audible and Inaudible</p>	<ul style="list-style-type: none"> • Understand the role of individuals in conservation efforts. • Understand that sound is a form of energy • Learn about the basic characteristics of sound • Learn about how sound travels through different mediums and the factors that affect it. • Develop an awareness of noise pollution and its adverse effects on human 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making ➤ Problem Solving 	<ul style="list-style-type: none"> ➤ Demonstration cum lecture method ➤ Guided Discussion ➤ Activity based teaching ➤ Problem solving based learning ➤ 5 E's ➤ Collaborative Learning

		<p>Sounds 10.7 Noise and Music 10.8 Noise Pollution</p> <p>Lab Activity To find the time period and the frequency of an oscillating pendulum.</p>	health and the environment.		
August	24	<p>Ch. 13: Light 13.1 What makes Things Visible 13.2 Laws of Reflection 13.3 Regular and Diffused Reflection 13.4 Reflected Light Can be Reflected Again 13.5 Multiple Images 13.6 Sunlight — White or Colored 13.7 What is inside Our Eyes? 13.8 Care of the Eyes 13.9 Visually Impaired Persons Can Read and Write 13.10 What is the Braille System?</p> <p>Ch. 4: Combustion & Flame 4.1 What is Combustion? 4.2 How Do We Control Fire?</p>	<ul style="list-style-type: none"> • Learn about different sources of light, including natural. • Learn about the reflection of light, including the laws of reflection. • Understand how images are formed by mirrors, including concept of lenses and their properties. • Learn about different parts of an eye <ul style="list-style-type: none"> • Understand the concept of combustion 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making ➤ Problem Solving 	<ul style="list-style-type: none"> ✚ Demonstration cum lecture method ✚ Guided Discussion ✚ Activity based teaching ✚ Problem solving based learning ✚ 5 E's ✚ Collaborative Learning

		<p>4.3 Types of Combustion 4.4 Flame 4.5 Structure of a Flame 4.6 What is a Fuel? 4.7 Fuel Efficiency</p>	<ul style="list-style-type: none"> • Understand the three essential requirements for combustion • Differentiate in types of flames produced during combustion, 		
September	18	<p>Ch. 12: Some natural Phenomenon 12.1 Lightning 12.2 Charging by Rubbing 12.3 Types of Charges and Their Interaction 12.4 Transfer of Charge 12.5 The Story of Lightning 12.6 Lightning Safety 12.7 Earthquakes</p> <p>Lab Activity – To study the power of static Electricity</p>	<ul style="list-style-type: none"> • Understand the concept of lightning and its formation. • Identify the safety measures to be taken during a thunderstorm • Explain the causes and effects of earthquakes. 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making ➤ Problem solving 	<ul style="list-style-type: none"> ➤ Demonstration cum lecture method ➤ Guided Discussion ➤ Activity based teaching ➤ Problem solving based learning ➤ 5 E's ➤ Collaborative Learning
October	20	<p>Ch. 8: Force and Pressure 8.1 Force – A Push or a Pull 8.2 Forces are due to an Interaction 8.3 Exploring Forces 8.4 A Force Can Change the State of Motion 8.5 Force can Change the Shape of an Object 8.6 Contact Forces</p>	<ul style="list-style-type: none"> • Understand the concept of force and its effects on objects • Learn about factors that affect pressure, such as area and force, different units of pressure, like Pascal and atmosphere. • The forces acting on objects in fluids. 	<ul style="list-style-type: none"> ➤ Analysis. ➤ Critical Thinking ➤ Curiosity. ➤ Confidence. ➤ Motivation. ➤ Creativity. ➤ Communication. ➤ Decision making 	<ul style="list-style-type: none"> ➤ Demonstration cum lecture method ➤ Guided Discussion ➤ Activity based teaching ➤ Problem solving based learning ➤ 5 E's ➤ Collaborative Learning

		<p>8.7 Non-contact Forces 8.8 Pressure 8.9 Pressure Exerted by Liquids and Gases 8.10 Atmospheric Pressure</p> <p>Lab Activity To show that liquid pressure varies with depth.</p> <p>Ch. 9: Friction 9.1 Force of Friction 9.2 Factors affecting Friction 9.3 Friction: A Necessary Evil 9.4 Increasing and Reducing Friction 9.5 Wheels Reduce Friction 9.6 Fluid Friction</p>	<ul style="list-style-type: none"> • Understand the concept of friction and its role in everyday life. • Learn the advantages and disadvantages of friction in different situations • Learn about the methods used to increase or decrease friction 	➤ Problem Solving	
November	22	REVISION			
December	13	FINAL TERM			

SUBJECT: - SOCIAL SCIENCE

Month	No. of Working Days	Content	Learning Outcome	Skills	Teaching Methodology
March	22	<p><u>History</u> How, When, and Where</p> <p><u>Geography</u> Resources</p> <p><u>Civics</u> The Indian Constitution</p>	<ul style="list-style-type: none"> • Understand the concept of history and its sources. • Develop a chronological understanding of historical events. • Classify resources into natural, human-made, and human resources. • Understand the importance of sustainable use of resources. • Understand the structure and functioning of the Indian Constitution. • Identify fundamental rights and duties of Indian citizens 	<ul style="list-style-type: none"> • Source analysis • Chronological reasoning • Classification skills • Environmental consciousness • Legal literacy • Constitutional understanding 	<ul style="list-style-type: none"> • Interactive discussions on the importance of history • Use of timelines and historical maps • Classifying various resources through hands-on activities • Group discussions on sustainable development • Role-play to simulate the functioning of the Constitution • Collaborative discussions on fundamental rights and duties
April	22	<p><u>History</u> From Trade to Territory</p>	<ul style="list-style-type: none"> • Comprehend the impact of early European traders on India. 	<ul style="list-style-type: none"> • Analytical thinking • Cause and effect analysis 	<ul style="list-style-type: none"> • Role-play activities depicting historical events

		<p style="text-align: center;"><u>Geography</u> Land, Soil, Water, Natural Vegetation, and Wildlife Resources</p> <p style="text-align: center;"><u>Civics</u> Understanding Secularism</p>	<ul style="list-style-type: none"> Analyze the process of the establishment of British power in India. Identify different types of soil, vegetation, and wildlife resources. Discuss the importance of conservation and sustainable use. Define secularism and its importance in the Indian context. Analyze the concept of secularism in various historical and contemporary contexts 	<ul style="list-style-type: none"> Observation skills Environmental awareness Critical analysis Interdisciplinary understanding 	<ul style="list-style-type: none"> Group discussions on the consequences of colonialism Field trips to observe local ecosystems Group projects on conservation strategies Case study on secularism in different societies Debate on role of secularism in a diverse nation
May	18	<p style="text-align: center;"><u>History</u> Tribals, Dikus and the Vision of a Golden Age Geography Mineral and Power Resources</p>	<ul style="list-style-type: none"> Understand the socio-economic conditions of tribal communities. Evaluate the impact of British rule on tribal societies 	<ul style="list-style-type: none"> Ethnographic analysis Historical empathy 	<ul style="list-style-type: none"> Guest lectures from experts on tribal cultures Role-playing activities to understand tribal perspectives

		<p style="text-align: center;"><u>Geography</u> Mineral and Power Resources</p>	<ul style="list-style-type: none"> • Identify different types of minerals and power resources. • Understand the sustainable use of these resources 	<ul style="list-style-type: none"> • Resource mapping • Critical thinking on resource conservation 	<ul style="list-style-type: none"> • Hands-on activities on mineral identification • Group projects on sustainable energy solutions
June	18	<p style="text-align: center;"><u>History</u> When People Rebel</p>	<ul style="list-style-type: none"> • Analyze the causes and consequences of the 1857 Revolt. • Understand the diverse responses of people to British rule. 	<ul style="list-style-type: none"> • Cause and effect reasoning • Historical inquiry 	<ul style="list-style-type: none"> • Multimedia presentations on the 1857 Revolt • Group projects on different aspects of the revolt
July	18	<p style="text-align: center;"><u>Geography</u> Agriculture</p> <p style="text-align: center;"><u>Civics</u> Why Do We Need a Parliament?</p>	<ul style="list-style-type: none"> • Classify different types of farming practices. • Analyze the impact of agricultural practices on the environment. • Understand the structure and functioning of the Parliament. 	<ul style="list-style-type: none"> • Agricultural analysis • Environmental awareness • Civic literacy • Parliamentary understanding 	<ul style="list-style-type: none"> • Agricultural field visits • Class debates on sustainable agricultural practices • Mock parliamentary sessions

			<ul style="list-style-type: none"> Recognize the importance of Parliament in a democratic system. 		<ul style="list-style-type: none"> Guest lectures by political experts
August	24	<p><u>History</u> Colonialism and the City</p> <p><u>Geography</u> Industries</p>	<ul style="list-style-type: none"> Examine the process of urbanization during British rule. Analyze the changes in urban society during this period. Understand the concept and types of industries. Analyze the factors influencing the location of industries. 	<ul style="list-style-type: none"> Urban studies Social analysis Industrial analysis Geographical understanding 	<ul style="list-style-type: none"> Field trips to historical urban sites Class discussions on the impact of urbanization Case studies on different industries Guest lectures from industry professionals
September	18	<p><u>History</u> From Trade to Territory</p> <p><u>Geography</u> Human Resources</p>	<ul style="list-style-type: none"> Comprehend the impact of early European traders on India. Analyze the process of the establishment of British power in India. 	<ul style="list-style-type: none"> Analytical thinking Cause and effect analysis Demographic analysis 	<ul style="list-style-type: none"> Role-play activities depicting historical events Group discussions on the consequences of colonialism Case studies on population trends

			<ul style="list-style-type: none"> • Understand the concept of human resources and their importance. • Analyze the factors influencing population distribution 	<ul style="list-style-type: none"> • Geographical understanding 	<ul style="list-style-type: none"> • Guest lectures
October	20	<u>History</u> Ruling the Countryside	<ul style="list-style-type: none"> • Evaluate the changes in agriculture and rural society under British rule. • Understand the economic impact of British rule on rural India. 	<ul style="list-style-type: none"> • Critical thinking • Economic analysis 	<ul style="list-style-type: none"> • Case studies on agrarian changes • Class debates on the positive and negative aspects of British rule
November	22	REVISION			
December	13	FINAL TERM			

SUBJECT: - COMPUTER

Month	No. of Working Days	Content	Learning Outcome	Skill	Teaching Methodology
March	22	CHAPTER 1: Computer Network: Communication, Computer Network, Types of networks, Network Hardware, Communication Channels, Network Architecture, Network Topology, Protocol	Students will be able to: <ul style="list-style-type: none"> • Define Communication • Computer Network and types of networks • Tell about the Communication Channels. • Define protocol. 	Understanding, recall, recognition.	Lecture cum Demonstration: Begin the chapter with a live demonstration introducing computer network and type of network. Visual Aids: Use visuals, such as pictures or props, to enhance understanding and create excitement.
April	22	CHAPTER 2: MS- Access Creating Database. Database Microsoft Starting Access 2016	<ul style="list-style-type: none"> • Define Database Microsoft • Starting Access 2016 • Database Microsoft • Understand the basics concepts of Database 	Attention to detail, recall, reorganization	Interactive Session: Conduct an interactive discussion introducing the basic components of database. Present a live demonstration using Excel and its features. Group Discussion: Facilitate group discussions to share their findings and experiences.
May	18	CHAPTER 3: Table and Forms	<ul style="list-style-type: none"> • Define Table and its use. • Tell about different view in a table. • Define Primary key in the Table. 	Creativity, understanding, recall. Critical	Interactive Recap:

		Working with Database Table Filtering Data, Creating Relationship between Tables, Different views in Access, Defining the Primary key in the Table, Working with Tables in Datasheet and Design view, Setting Field properties in Design view, Creating Forms.	<ul style="list-style-type: none"> • Tell about different types of referencing. • Creating Forms in MS-Access. 	thinking, problem solving, analyzing.	Conduct an interactive session recapping basic MS-Access and functions. Peer Teaching: Encourage students to share their knowledge, promoting collaborative learning,
June	18	CHAPTER 4: Access-Query & Report Creating a Query, Understanding Query, Options- Using Criteria in Query, Sorting Data in Query Creating and Report.	<ul style="list-style-type: none"> • Creating a Query. • Define the data sorting. • Creating a Report. • Tell about data type • Use Form. 	Creativity, recall, reorganization , Critical thinking	Demonstration: Provide a live demonstration of creating Query and Report.
July	18	CHAPTER 5: Ink space – Vector Designing Introduction to Ink space, working with Objects, Selecting Fill Colors, working with curves,	<ul style="list-style-type: none"> • Drawing and Editing Shapes. • Tell about the Vector Graphics. • Defining the feature of object and shapes. • Defining different shapes tools. • Saving the project in different file format. 	Creativity, Problem solving, Critical thinking	Live Demonstration: Provide a live demonstration of creating Vector design. Peer Teaching:

		Drawing Shapes, Defining Outline, Zoom in and Out, Creating text.			Encourage students to share their knowledge, promoting collaborative learning.
August	24	CHAPTER 6: Cloud Computing Introduction to Cloud Computing, Google Docs and Google Drive	<ul style="list-style-type: none"> • Define Cloud Computing. • Understand the concept of Google drive. • Understand the concept of Google Docs. • Use Google drive. • Use google Account. 	Creativity, Problem solving, Critical thinking	Live Demonstration: Provide a live demonstration creating Google Account and work on Google drive tools like Google Docs, Excel and PPT etc.
September	18	CHAPTER 7: Google Apps Introduction to Google. For Surfing and Research, For Staying in Touch, For Organizing Your Staff, For Working Smartly, For Watching, Listening and Playing, Google Devices CHAPTER 8: Apps Development Introduction to App, Android and iOS, Types of Apps, Categories of Apps, Working of Apps, Developing an App.	<ul style="list-style-type: none"> • Define Google Apps. • Understand how to be surfing internet with safety measurement. • Understand how to use online platform. • Tell about App and its types. • Differentiate between Android and iOS App. • Work with App. • Create App for Android. • Understand native and web App. 	Creativity, problem solving, analytical skill	<p>Group Discussion: Facilitate group discussions to share their findings and experiences.</p> <p>Peer Teaching: Encourage students to share their knowledge, promoting collaborative learning.</p> <p>Lecture cum Demonstration: Use of different types of Apps and its working.</p>

October	20	<p>CHAPTER 9: Python Introduction</p> <p>CHAPTER 10: Python- Control Structure Control structure, Conditional control structure, break statements and Continue statements</p>	<ul style="list-style-type: none"> • Define python programming. • Tell about variable and constant. • Understand the basic concepts of python. • Understand the concepts of Conditions. • Tell about different types of statements. • Define statements. 	Creativity, problem solving, Recall.	<p>Lecture cum Demonstration: Creating saving and execution python program.</p> <p>Group Discussion: Facilitate group discussions to share their findings and experiences.</p>
November	22	REVISION			
December	13	FINAL TERM			