

JVM SENIOR SECONDARY SCHOOL, SONIPAT
ANNUAL PLANNER 2024-25
CLASS-10
SUBJECT- COMMUNICATIVE ENGLISH

S.NO.	MONTH	TOPIC	ART INTEGRATION ACTIVITY	METHODOLOGY	INSTRUTIONAL AIDS
1	APRIL	<p>FICTION 1-Two Gentlemen of Verona</p> <p>Poetry1-The Frog and Nightingale</p> <p>GRAMMAR: TENSE AND MODALS</p> <p>WRITING SECTION: FORMAL LETTER</p>	<p>F1-1.MAKE A BEAUTIFUL PERSONAL DIARY AND MAINTAIN DIARY ENTRY</p> <p>P1-WRITE AN OBITUARY FOR THE NIGHTINGALE</p> <p>TENSE, MODALS 1.Prepare a chart on TENSES and MODALS 2.Presentation on the correct usage of tenses and modals</p>	<p>INTERACTIVE LECTURE METHOD</p> <p>PROBLEM SOLVING METHOD</p>	<p>Green Board smart class module NCERT textbook duster</p>
2	MAY	<p>FICTION 2-MRS. PACKLETIDE'S TIGER</p> <p>POEM-2-NOT MARBLE, NOR THE GILDED MONUMENTS</p>	<p>F2-MAKE A PICTURE OF LION HUNTING</p> <p>P2-IMAGINE YOU ARE THE MIRROR ,WRITE A SPEECH THAT YOU WOULD LIKE TO DELIVER TO HUMANS WHO COME TO SEE THEIR REFLECTION IN YOU.</p>	<p>INTERACTIVE CUM LECTURE METHOD</p> <p>STORY TELLING METHOD</p> <p>COMMUNICATIVE METHOD</p>	<p>Green board Educomp smart board NCERT textbook</p>
	REVISION +UT				

		<p>GRAMMAR: SUBJECT-VERB AGREEMENT</p> <p>WRITING SECTION: E – MAIL WRITING</p>	<p>SUBJECT- VERB AGREEMENT</p> <p>1.Present a conversation by showing the correct usage of subject verb concord</p>	<p>CLASS ROOM ACTION RESEARCH METHOD</p>	
3	JUNE	SUMMER VACATION	---	---	---
4	JULY	<p>FICTION-3 THE LETTER</p> <p>POEM3 - OZYMANDIAS</p> <p>GRAMMAR:REPORTED SPEECH WRITING SECTION:FACTUAL DESCRIPTION</p>	<p>F3- CONSTRUCT THE DIALOGUE BETWEEN THE POSTMASTER AND ALI’S DAUGHTER</p> <p>P4-PREPARE THE COLLAGE OF MONUMENTS OF INDIA</p> <p>REPORTED SPEECH</p> <p>1. Quiz on reported speech</p>	<p>DISCUSSION METHOD</p> <p>STORY TELLING METHOD ALONG LECTURE METHOD</p> <p>COGNITIVE APPROACH METHOD</p>	<p>Green board</p> <p>Educomp smart board</p> <p>NCERT textbook</p>
5	AUGUST	<p>FICTION4 –A SHADY PLOT</p> <p>DRAMA1-THE DEAR DEPARTED</p> <p>GRAMMAR:EDITING AND OMISSION</p>	<p>F4- PREPARE A OUIJA BOARD BY USING WASTE OUT OF BEST MATERIAL</p>	<p>COMMUNICATIVE METHOD</p> <p>COGNITIVE APPROACH METHOD</p>	<p>Green board</p> <p>Educomp smart board</p> <p>NCERT textbook</p>

		WRITING			
		SECTION:ARTICLES			
6	SEPTEMBER	REVISION+HALF YEARLY	---	---	---
7	OCTOBER	FICTION 5 –PATOL BABU,FILM STAR POEM4: THE RIME OF ANCIENT MARINER GRAMMAR:CLAUSES WRITING SECTION:REVISION OF FORMAL LETTER	F5-ROLE PLAY OF YOUR FAVOURITE FILM STAR CLAUSES 1.Quiz on clauses	DEMONSTRATIVE METHOD COMMUNICATIVE METHOD	Green board Educomp smart board NCERT textbook R, Smart -Board
8	NOVEMBER	FICTON6- VIRTUALLY TRUE DRAMA2-JULIUS CAESAR POEM 5: SNAKE GRAMMAR : DETERMINERS WRITING SECTION : REVISION OF “ FACTUAL DESCRIPTION	F6-MAKE A CHART TABULATION ON INTERACTIVE GAMES DETERMINERS 1Write a poem by using correct usage of determiners	EXPLANATION METHOD COMMUNICATIVE METHOD	Green board Educomp smart board NCERT textbook
9	DECEMBER	LITERATURE ,GRAMMAR &WRITING: REVISION			
10	JANUARY	PRE - BOARD			
11	FEBRUARY	REVISION + ANNUAL EXAMS			

Information Technology

Month	Chapter	Sub Topics	Art integration	Methodology	Teaching Aids
April	UNIT 3: DIGITAL DOCUMENTATION	<ul style="list-style-type: none"> • Introduction to word processing, • Word processing applications, • Introduction to Word Processing tool • Creating a document, Parts of a Word Processor Window, Cursor and mouse pointer. • List the available word processing applications. • Introduce with the parts of the main window. • Change document views. • Start a new document. • Open an existing document. • Save a document. • Close a document. • Use the Navigator 	<ul style="list-style-type: none"> • Introduction to word processing, • Word processing applications, • Introduction to Word Processing tool • Creating a document, Parts of a Word Processor Window, Cursor and mouse pointer. • List the available word processing applications. • Introduce with the parts of the main window. • Change document views. • Start a new document. • Open an existing document. • Save a document. • Close a document. Use the Navigator • Type some text in the document and 	Make a poster of office application programs	Demonstration method

- Text editing – Undo and Redo,
- Moving and copying text,
- Copy and Paste,
- Selecting text,
- Selection criteria,
- Selecting non-consecutive text items, • Selecting a vertical block of • text,
- Find and replace option,
- Jumping to the page number,
- Non-printing characters,
- Checking spelling and grammar,
- Using Synonyms and Thesaurus.

edit it,

- Demonstrate to use undo and redo option,
- Use the keyboard and mouse options to select, cut, copy, paste, and move text.
- Demonstrate to select nonconsecutive text items, vertical block of text,
- Search the word from the text and replace it with another word.
- Jump to the given page number in a document,
- Insert non-printing characters in a document,
- Check spelling and grammar and apply the changes to the document. • Demonstrate to use Synonyms and Thesaurus.

<p>May</p>	<p>Apply formatting features</p>	<p>Page style dialog, <ul style="list-style-type: none"> • Formatting text – Removing manual formatting, • Common text formatting, • Changing text case, • Superscript and Subscript, • Formatting paragraph – Indenting paragraphs, • Aligning paragraphs, Font colour, highlighting, and background colour, • Using bullets and numbering, • Assigning colour, border and background to paragraph • Page formatting – setting up basic page layout using styles, Inserting page break, • Creating header/footer and page numbers, • Defining borders and backgrounds, • Inserting images shapes, special characters in a document, • Dividing page into columns, • Formatting the shape or image </p>	<p>Apply various text formatting options for the text, •</p> <p>Demonstrate to format paragraphs – indent/align paragraphs, assign font colour, highlighting, and background colour, •</p> <p>Assign number or bullets to the lists items, •</p> <p>Demonstrate to assign colour, border and background to paragraph, •</p> <p>Demonstrate the page formatting – set up basic page layout using styles, •</p> <p>Insert page break, Create header/footer and page numbers, •</p> <p>Define borders and backgrounds •</p> <p>Insert images, shapes, special characters in a document, •</p> <p>Divide page into columns, •</p> <p>Format the shape or image.</p>		
<p>June</p>	<p>Summer Break</p>				

<p>July</p>	<p>Create and work with table</p>	<p>Creating table in Word Processor,</p> <ul style="list-style-type: none"> • Inserting row and column in a table, • Deleting rows and columns, • Splitting and merging tables, • Deleting a table, • Copying a table, • Moving a table. • Demonstrate and do the following in Word Processor: • Create table, • Insert and delete rows and column in a table, • Split and merge tables, • Delete a table, • Copy or move from one location to another location of document. 	<p>Creating table in Word Processor, •</p> <ul style="list-style-type: none"> Inserting row and column in a table, • Deleting rows and columns, • Splitting and merging tables, • Deleting a table, • Copying a table, • Moving a table. • Demonstrate and do the following in Word Processor: • Create table, • Insert and delete rows and column in a table, • Split and merge tables, • Delete a table, • Copy or move from one location to another location of document. 		
<p>August</p>	<p>UNIT 2: DATA ENTRY AND KEYBOARDING SKILLS</p>	<ul style="list-style-type: none"> • Keyboarding Skills, • Types of keys on keyboard, Numeric keypad, • Home keys, Guide keys, • Typing and deleting text, • Typing ergonomics, 	<ul style="list-style-type: none"> • Identify the keys and its use on the keyboard, • Demonstrate to use various keys on the keyboard, • Demonstrate to type the text, numbers, special character using 	<p>Lecture method Discussion method</p>	<p>Course book, white board, marker, duster, pictures of typewriter</p>

- Positioning of fingers on the keyboard, Allocation of keys to fingers on four different rows,
- Pointing device – Mouse, Mouse operations

- appropriate keys on the keyboard,
- Practice the correct typing ergonomics,
 - Practice to place fingers on correct key in four different row of keyboard,
 - Practice various mouse operations.
- Make a different categories of typewrite

Make a chart Depicting origin and Life history of typewriter.

Identify the user interface of

- typing tutor,
- Practice to type text in typing tutor software and interpret the results,
- Practice to work in lesson editor,
- Calculate the typing speed,
- Practice to

Introduction to Rapid Typing Tutor,

- Touch typing technique,
- User interface of Typing Tutor,
- Typing text and interpret

		Use typing software	improve typing • Using typing tutor software.	results, • Working with lesson editor, • Calculating typing speed, • Typing rhythm.	
September	Revision				
October	UNIT 1: INTRODUCTION TO IT–ITeS INDUSTRY	<ul style="list-style-type: none"> • Introduction to IT and ITeS, BPO services, • BPM industry in India, • Structure of the IT-BPM industry, • Applications of IT in home computing, everyday life, library, workplace, education, entertainment, communication, business, science and engineering, banking, insurance, marketing, health care, IT in the government and public service, 	<p>Model on IT Industry</p> <p>Chart tabulation on Application of ITeS</p> <p>Identify and list the various IT enabled services, Observe the application of IT in various areas.</p>	Lecture method Discussion method	Course book, white board, marker, duster,
November	Information and Communication Technology Skill	<p>Session 1</p> <p>Introduction: to ICT</p> <p>Session 2:</p> <p>Basic</p> <p>Interface of</p> <p>Session 3:</p> <p>Saving,</p>	Make a file using different features of writer	Lecture method Demonstration method	Course book, white board, marker, duster, computer, open office

Closing,
Opening and
Printing
Document

Session 4:
Formatting
Text in a
Word

Document

Session 5:

Checking
Spelling and
Grammar

Session 6:

Inserting
Lists, Tables,
Pictures, and
Shapes

Session 7:

Header,
Footer and
Page

Number

Session 8:

		Tracking Changes in LibreOffice Writer			
December	Entrepreneurship Skills	<p>Introduction to Entrepreneurship</p> <p>Session 2: Values of an Entrepreneur</p> <p>Session 3: Attitude of an Entrepreneur</p> <p>Session 4: Thinking Like an Entrepreneur</p> <p>Session 5: Coming Up with a Business Idea</p> <p>Session 6: Understanding the Market</p>	<p>GROUP discussion related to ideas for business</p> <p>Group activity : Interviewing employees and entrepreneurs</p> <p>Prepare a chart on e waste management</p> <p>Make something new with waste news paper to reduce wastage</p> <p>Make a Sapling</p>	Lecture method Discussion Method	Course book, white board, marker, duster, pointer
January	UNIT 4: ELECTRONIC SPREADSHEET	<ul style="list-style-type: none"> • Introduction to spreadsheet application, • Starting a spreadsheet, • Parts of a spreadsheet • Worksheet – Rows and columns, Cell and cell address, 	<ul style="list-style-type: none"> • Introduction to spreadsheet application, • Starting a spreadsheet, • Parts of a spreadsheet • Worksheet – Rows and columns, Cell and cell address, • Range of cell – 	Make a poster of office application programs	Demonstration method

- Range of cell – column range, row range, row and column range.
- Start the spreadsheet , • Identify the parts of Calc,
- Identify the rows number, column number, cell address,
- Define the range of cell,
- Identify row range, column range, row & column range

- Different types of data, • Entering data – Label, Values, Formula • Formula, how to enter formula,
- Mathematical operators used in formulae,
- Simple calculations using values and operators,
- Formulae with cell addresses and

- column range, row range, row and column range.
- Start the spreadsheet ,
- Identify the parts of Calc,
- Identify the rows number, column number, cell address,
- Define the range of cell,
- Identify row range, column range, row & column range

- Demonstrate to enter the text, numeric data in a cell, • Identify the label, values and formula in the cell,
- Demonstrate to enter formula in a cell, • Construct the formula using mathematical operators, • Identify formulae with cell addresses and operators, • Identify the correct syntax of formula,
 - Use the basic functions to perform calculations on data.

Subject-Mathematics

		<p>operators,</p> <ul style="list-style-type: none"> • Commonly used basic functions in a spreadsheet – SUM, AVERAGE, MAX, MIN, Count • Use of functions to do calculations. 			
February	Revision				

SUBJECT – MATHEMATICS

Month	Chapter	Sub-Topics	Methodology	Teaching Aids/Instructional	Art Integrated Activities
April Week-1 Week-2	Chapter-1 (Real numbers)	<ul style="list-style-type: none"> • Fundamental theorem of arithmetic • Proof of irrationality 	<ul style="list-style-type: none"> • Recapitulation on exhibiting memory of previously learned material in class IX by recalling terms facts concepts and answers 	Chalk board, Duster	<ul style="list-style-type: none"> • Draw Eratosthenes scene of prime numbers (1-100) with the help of different colours sketch pens on A-4 size sheet. • Draw sketch of Euclid • Help of diagram show compactness number system.
Week-3 Week-4	Chapter-2 (polynomials)	<ul style="list-style-type: none"> • Zeros of a polynomial • Relationship between zeros and coefficients 	<ul style="list-style-type: none"> • Heuristic approach • Inductive, deductive method • Project based method is induced • Project based method is induced 		<ul style="list-style-type: none"> • With the help of thread represent different type of curves which have 1 real root, 2 real roots, and 3 real roots respectively. • Draw a tree depicting polynomial in which branches can be divided on the basis of degree as well as terms.

<p>MAY Week-1 Week-2</p>	<p>Chapter-3 (Pair of linear equations in two variables)</p>	<ul style="list-style-type: none"> Graphical presentation of pair of eq. Consistency/Inconsistency of lines Algebraic methods-Subtraction Elimination Simple Situational Problem Simple problem on reducible to linear equations. 	<ul style="list-style-type: none"> Different aspects of concept used in daily life. Engagement of students by asking various practical situation. 	<ul style="list-style-type: none"> To investigate the conditions for consistency and inconsistency of a system of pair of linear equation. 	<ul style="list-style-type: none"> Draw stained glass window on A-4 size sheet. Draw a nature scene using different line forms. On a chart paper draw three real life application of parallel lines, intersecting lines and coincident lines
<p>Week-3 Week-4</p>	<p>Chapter-4 (Quadratic Equations)</p>	<ul style="list-style-type: none"> Standard form of quadratic equation $ax^2+bx+c=0, (a \neq 0)$ Solution(By Factorization Method) By using Quadratic formula Relationship between discriminant and problems related to day to day activities. Situational problems based on quadratic equation related to day to day activities to be incorporated 	<ul style="list-style-type: none"> Group wise project will be given to solve particulate problem. Problem solving method will be used to attain learning goals. 	<ul style="list-style-type: none"> Geometrical pattern 	<ul style="list-style-type: none"> Make a poster depicting various methods to solve quad. Equation Make a poster on parabolic figure(pringleparabola, motion of water in fountain, structure of kettles)
	<p>Chapter-5 (Arithmetic Progressions)</p>	<ul style="list-style-type: none"> Studying of arithmetic progression Derivation of the n^{th} Term Sum of the first n terms of AP Application in solving practical problems 	<ul style="list-style-type: none"> Thought provoking, open ended questions will be asked Learner's initiative has to be encouraged 		<p>Activity:</p> <ul style="list-style-type: none"> To verify that sum of first x odd natural number is x^2. (Drawing, colouring and pasting activity) Find the sum of first x natural number(Lab manual activity by coloured sheets and sketching)

			and appreciated		
JUNE	Summer Vacation				
JULY Week-1 Week-2 Week-3 Week-4	Chapter-6 (Similar Triangles) Chapter-8 (Introduction to Trigonometry)	<ul style="list-style-type: none"> • Definitions, examples, counter examples of similar triangles. • State and prove basic proportionality theorem and Pythagoras theorem with their converses • Area theorems of two similar triangles • T-Ratios of an acute angle of a right-angled triangle. • Proof of their existence. • Geometrical interpretation of value of T-Ratio from 0° to 90° • Relationships between T-Ratios(i.e. Trigonometric identities) 	<ul style="list-style-type: none"> • Constructivism approach advanced organizers increases scaffolding. • Explanation in the form of presentation • Team-coordination work to be assigned to a group solving certain problem 	Handouts, prompts, modeling, concept maps	<p>Cooperative learning is constructivism The students will be able to verify the BPT using coloured papers of different types of triangles(paper folding activity) proof of Pythagoras theorem</p> <p>Group activity-</p> <ul style="list-style-type: none"> • Student will prepare a chart based on values of angles 0°, 30°, 45°, 60°, 90° and its geometrical interpretation • Students will make a chart based on T-Ratios and trigonometric identities.
AUGUST Week-1 Week-2 Week-3	Chapter-14 (Statistics) Chapter-15 (Probability)	<ul style="list-style-type: none"> • Mean • Median and mode of grouped data (bimodal situation to be avoided) • Classical definition of probability • Simple problems on finding the probability of an event. 	<ul style="list-style-type: none"> • Power point presentation, various statistical data were represented 	Dice, Cards, Spinners	<ul style="list-style-type: none"> • Probability generating a random number from 0 to 10(students will prepare a medal based on sample space of some events Tossing a coin, throwing of a dice , 2

					dice simultaneously, cards and its grouping)
SEPTEMBER	Half Yearly Examination				
OCTOBER Week-1 Week-2 Week-3 Week-4	Chapter- 7 (Coordinate geometry) Chapter-9 (Heights and Distance) Chapter-10 (Circle)	<ul style="list-style-type: none"> • Concept of coordinate geometry • Graph of linear equation • Distance formula • Section formula(internal division) • Angle of elevations, angle of depression • Simple problems on heights and distances. • Angle should be $30^{\circ}, 45^{\circ}, 60^{\circ}$ • Tangents to a circle, at point of contact • The- Tangents drawn from an external points are equal • Tangent at any point of a circle is perpendicular to the radius through the point of contact. 	<ul style="list-style-type: none"> • Geo-board(location of a point and explaining the distance formula) • Explanation method • Investigation technique • By designing clinometer, by doing experiment of measuring height of a nearby building • Drawing skills will enhanced • Guided discovery 	<ul style="list-style-type: none"> • Papers of different colours • Clinometer 	<ul style="list-style-type: none"> • To verify that medians of a triangle and centroid activity based on paper folding. • Mathematical instrument(clinometer) to measure angle of elevation/depression (design a clinometer) • To verify that length of tangents drawn from an external point to a circle are equal(Drawing activity by thread and wool)
NOVEMBER	Chapter-12 (Areas related to circle) Chapter-11 (construction)	<ul style="list-style-type: none"> • About the area and perimeter of circle • Area of sectors and segment of circle • Area of segment of a circle • Problem based on central angle of $60^{\circ}, 90^{\circ}$ and 120° only • Plane figures involving triangles, 	<ul style="list-style-type: none"> • Exposition Method • (Clear and proper sequenced explanation by teachers of idea or concept) • (Visualizing to figures) 	Clear and prop 2D 3D shapes	<ul style="list-style-type: none"> • Area of sectors formed at the vertices of triangle.

		<p>simple quadrilateral and circles.</p> <ul style="list-style-type: none"> • Construction of bisectors of line segment • Angle of bisectors of measure 60°, 90°, 45° etc. equilateral triangles • Construction of triangle given its base. 			
DECEMBERweek-1 Week-2	Chapter-13 (Surface Areas and Volumes)	<ul style="list-style-type: none"> • Surface areas and volumes of combination of any two of following- cube, cuboids, spheres, hemispheres, cylinders/cones. 	<p>Guided Discovery Method</p> <ul style="list-style-type: none"> • Teacher presenting a situation and pupil study situation in order to discover some concept • Visualizing the models to understand the concepts 	3D shapes	<ul style="list-style-type: none"> • To suggest a formula for volume of sphere experimentally • To find the surface area of a sphere • To make a cone of given slant length and base circumference
JANUARY	Pre-Board	REVISION FOR ANNUAL EXAM			
FEBRUARY	ANNUAL EXAMINATION				

SCIENCE

MONTH	week	TOPIC	SUBTOPIC	ACTIVITIES	METHODOLOGIES	TEACHING AIDS
April	1 st week	Chemical Reactions and equation	Chemical equation, balanced chemical equation,	1) Develop a game using cards or thick sheets. Write symbols of elements,	Discussion Observation Explanation	Chalk, duster, Green board, Smart board.

2 nd week		tions	<p>implications of a balanced chemical equations,</p> <ul style="list-style-type: none"> ➤ Types of chemical reactions : 	<p>formulae, valence and names of various reactions on different cards. These can be used for balancing equations and classifying the types of reactions.</p>		
3 rd week			<ul style="list-style-type: none"> ➤ combination, decomposition, 	<p>2) Identify and note at least ten chemical reactions taking place in your home/kitchen and give reasons for the same.</p>		
4 th week			<ul style="list-style-type: none"> ➤ displacement, double displacement, precipitation, neutralization, 	<p>3) Take an iron nail and put it in a transparent container filled with water. Take a picture of it. Leave it for a few days and then record your observations. Compare it with the photo you took initially.</p>		
			<ul style="list-style-type: none"> ➤ oxidation and reduction , corrosion and rancidity. 	<p>4) With the help of different figures (like square, circle, arrows etc.), draw a diagram to show following chemical reactions- Combination, Decomposition, Single displacement</p>		

				and Double displacement.		
May	1 st week	Acids , Base s and Salts	<ul style="list-style-type: none"> ➤ Introduction ,Indicator s, strong and week acid,dil. and conc.acid ➤ Chemical reactions of acids, ➤ Introduction of bases Chemical propertie s of base ➤ concept of ph scale, importan ce of ph in everyday life, ➤ preparati on and uses of sodium hydroxid e, bleaching powder, ➤ washing soda and plaster of paris 	1)Make a concept Map depicting the properties of Acid and Base on A4 sheet. 2)Wander and select at least twenty substances used in your home. Make a table and classify them into Acids, Bases or Salts.	Discussion Observation Explanation	Chalk, duster, Green board, Smart board
	2 nd week					
	3 rd week					
July	4 th week					
	1 st week					
	2 nd week					
July	3 rd week	Meta ls and Non-	Properties of metals and non-metals, reactivity series,	1)Make an assignment on 'Five Most Precious	Discussion Observation Explanation	Chalk, duster, Green board, Smart board

	4 th week	metals	<p>formation and properties of ionic bond,</p> <p>metallurgy, corrosion and its prevention</p>	<p>Metals'. Also write properties of each.</p> <p>2) Make cards of Metals of Reactivity series. These cards can be used as a game to learn who can replace whom.</p> <p>3) Make a chart on 'Steps involved in the extraction of metals from ores'.</p>		
August	1 st week	Carbon and its Compounds	<p>Covalent bonding in carbon compounds, versatile nature of carbon,</p> <p>Homologous series, nomenclature of carbon compounds containing functional groups (halogens, alcohol, aldehydes, ketones, alkenes and alkynes),</p> <p>difference between saturated and unsaturated hydrocarbons, chemical properties of carbon compounds (combustion, oxidation,</p>	<p>1) Make a model showing bonding in Graphite/Diamond/Buckminsterfullerene using matchsticks.</p> <p>2) Make an assignment on Nomenclature of Functional Groups. Make members up to six carbons.</p> <p>3) On an A4 sheet compare the properties of Ethanol and Ethanoic acid.</p>	Discussion Observation Explanation	Chalk, duster, Green board, Smart board
	2 nd week					
	3 rd week					
	4 th week					

			addition and substitution). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.			
						Chalk, duster, Green board, Smart board
Biology April	1 st week	Life Proc esses	Living Being, Basic concept of	1)Draw a Mind map of Different types of mode of nutrition. 2)Make a model/chart of Human Digestive system/Human Respiratory system. 3)Make a model/chart of Human Heart/Human Excretory system.	Discussion Observation Explanation	Chalk, duster, Green board, Smart board
	2 nd week		nutrition			
	3 rd week		Introduction of respiration, respiration in plants			
May	4 th week		Respiration in human beings and aquatic animals			
	1 st week		transportation in plants			
	2 nd week		Transportation in animals			
	3 rd week		excretion in plants			
	4 th week		excretion in animals.			
July	1 st week	Cont rol and Co- ordin ation	Tropic movements in plants, Introduction of plant hormones,	1)Make a well labeled diagram of Neuron. 2) Make a chart/model of Human brain. 3)Make a diagram on A4 size sheet to locate various human endocrine	Discussion Observation Explanation	Chalk, duster, Green board, Smart board
	2 nd week		control and co-ordination in animals:			
	3 rd week		Nervous system, Voluntary,			

	4 th week		involuntary and reflex action, animal hormones.	glands. Also write the hormones released by these glands and their respective functions.		
August	1 st week 2 nd week 3 rd week 4 th week	How do Organisms Reproduce?	Reproduction in plants Reproduction in animals reproductive health need and family planning methods, HIV/AIDS, child bearing and women's health.	1) Draw all the modes of Asexual Reproduction on A4 sheet. 2) Make a chart of Male Reproductive System/Female Reproductive System. 3) Search on the internet and make a histogram to show the number of HIV-AIDS patients in past ten years. Also draw a conclusion from the data.	Discussion Observation Explanation	Chalk, duster, Green board, Smart board
October November	1 st week 2 nd and 3 rd week 4 th week 1 st week 2 nd week	Heredit y	Heredit y, Mendel's contribution- Laws for inheritance of traits, sex determination Introduction, ecosystem, biotic and abiotic factors Biodegradable and non	1) Make some cards on different traits exhibited by us like hair color, dry skin, skin color etc. These cards can be used as a game to identify whether the character is Inherited or Acquired trait.	Discussion Observation Explanation	Chalk, duster, Green board, Smart board

	3 rd week		biodegradable substances, food chain and tropic levels			
	4 th week		Biological magnification and 10 percent law Ozone layer depletion			
SUBJECT - SCIENCE						
April	1 st week	Light - Reflection and Refraction	Reflection of light by Plane mirror and laws of reflection	1)Make an assignment of Ray diagrams of Both spherical mirrors and spherical lenses. 2)Take a magnifying glass and focus the image of sun on a paper through it. Focus till the paper start burning. Identify the reason behind the burning of paper.	Discussion Observation Explanation	Chalk, duster, Green board, Smart board
	2 nd week		curved surfaces, image formed by spherical mirrors,			
	3 rd week		centre of curvature, principal axis, principal focus, focal length, mirror formula, magnification			
May	4 th week		Refraction: Laws of refraction, refractive index			
	1 st week		Refraction of light by spherical lenses, image formed by spherical lenses, Lens formula, power of lens			
	2 nd week					
	3 rd week					
	4 th week					
July	1 st	Hum	Functioning of a	1)Make a	Discussion	Chalk, duster,

	<p>week</p> <p>2nd week</p> <p>3rd week</p> <p>4th week</p>	<p>an Eye and Colourful World</p>	<p>lens in human eye,</p> <p>defects of vision and their corrections,</p> <p>refraction through prism, dispersion of light,</p> <p>scattering of light, applications in daily life.</p>	<p>model/chart of Human eye.</p> <p>2)Make a Comparison between Myopia and Hypermetropia with the help of ray diagrams.</p>	<p>Observation</p> <p>Explanation</p>	<p>Green board,</p> <p>Smart board</p>
<p>October</p>	<p>1st week</p> <p>2nd week</p> <p>3rd week</p> <p>4th week</p>	<p>Electricity</p>	<p>Electric current, potential difference, ohm's law,</p> <p>resistance, resistivity, factors affecting the resistance of a conductor,</p> <p>series combination of resistors, parallel combination of resistors and its application in daily life,</p> <p>Heating effects of electric current and its application in daily life, electric power</p>	<p>1)Collect at least twenty materials of daily use. Differentiate them as Conductors or Insulators. Justify the reason. Paste/draw pictures of these materials on A4 size sheet under the appropriate category.</p> <p>2)Make an Electricity Vocabulary Word wall on A4 sheet. Also draw the diagram against each word.</p> <p>3)Draw a poster to depict various situations in which a person might get an electric shock.</p> <p>4)With the help of different</p>	<p>Discussion</p> <p>Observation</p> <p>Explanation</p>	<p>Chalk, duster,</p> <p>Green board,</p> <p>Smart board</p>

				<p>color threads, Show Resistance of a System of Resistors (Resistors in Series and Resistors in Parallel). Also derive the formula to calculate net resistance in each type of circuit.</p>		
<p>November</p>	<p>1st week 2nd and 3rd week 4th week</p>	<p>Magnetic Effects of Electric current</p>	<p>Magnetic field, field lines, field due to a current carrying conductor, Fleming's left hand rule Fleming's right hand rule, domestic electric circuits.</p>	<p>1)On a white sheet, place a bar magnet and sprinkle iron fillings uniformly over it. Make a diagram of the same to show your observation. 2)On an A4 sheet, draw/paste the pictures of various shapes/types in which magnets are available. Also write the materials in which these magnets are used. 3)On an A4 sheet, draw schematic diagram of common domestic circuit.</p>	<p>Discussion Observation Explanation</p>	<p>Chalk, duster, Green board, Smart board</p>
<p>May</p>		<p>unit test 1</p>			<p>October</p>	<p>unit test</p>

July		unit test 2			November December January	unit test Preboard Preboard
September		Halfy early				

Subject- Social Science

Month	Topic	Subtopics	Art Integration Activity	METHODOLOGY	Instructional aids
April (I and II week)	HISTORY 1 The Rise of Nationalism in Europe	a)The French Revolution and the Idea of the Nation b)The Making of Nationalism in Europe c)The Age of Revolutions: 1830-1848 d)The Making of Germany and Italy e)Visualizing the Nation f)Nationalism and Imperialism	The Rise of Nationalism in Europe 1.Make a pamphlet highlighting ideas of Frederic Sorrieu 2.Make a painting of Napoleon 3.Make a postage stamp of Marianne 4.Make a chart showing the different attribute with meaning	Interactive Lecture Method Story telling method	Green board Educomp smart board NCERT textbook
(III week)	GEOGRAPHY 1Resources and Development	a)Types of Resources b)Development of c)Resources Planning in India d)Soil as a Resource Classification of Soils e) Land Degradation /soil erosion and Conservation measures a)Case Studies of Belgium and Sri Lanka b) Why power sharing is desirable? c)Forms of Power	Resources and Development 1Make a beautiful painting of soil profile 2Mind map showing different type of soil 3Group discussion on land degradation and its preventive measure	Brain storming method Demonstration method	Green board Educomp smart board NCERT textbook

(IV week)	CIVICS 1. Power Sharing	Sharing a)What Development Promises - Different people different goals b) Income and other goals c)National Development c) How to compare different countries or states?	1. Power Sharing 1.Make stencil of BELGIUM and SRILANKA 2.Theatre presentation on majoritarianism in Sri Lanka 3.Make caricature on Reigning Reins 4.Concept map on forms of Power Sharing	Lecture and discussion Method	Green board Educom p smart board NCERT textbook
(IV week)	ECONOMICS 1.Development	Income and other criteria d)Public Facilities e)Sustainability of development	Development 1 prepare a chart showing differential goals of different persons 2Prepare a bulletin Board regarding the development of our country 3Project on Sustainable development	Deductive method	Green board Educom p smart board NCERT textbook
May (I and II week)	HISTORY 2.Nationalism in India	a)The First World War, Khilafat and Non - Cooperation b)Differing Strands within the Movement c) Towards Civil Disobedience d)The Sense of Collective Belonging	Nationalism in India 1 .MIND map related to movement related to freedom 2.Map Skill by showing main session of Congress 3.Presentation of dandi march	Interactive Method Story telling Method	Green board Educom p smart board NCERT textbook
(IIIweek)	GEOGRAPHY 2.Forest and Wildlife (Periodic Tests only)	a)Biodiversity or Biological Diversity b) Flora and Fauna in India c)Vanishing forests d) Types and distribution of forests and wildlife resources e)Community and Conservation	Forest and Wildlife (Periodic Tests only and will not be evaluated in board exams) 1.Make a project on – PROJECT TIGER 2Presentation on importance	Collaborating Method	Green board NCERT textbook

<p>(III week)</p>	<p>CIVICS 2. Federalism</p>	<p>a)What is Federalism? b)What make India a Federal Country? c) How is Federalism practiced? d)Decentralization in India</p>	<p>of forest and wild life 3.Prepare a MCQ quiz</p> <p>2. Federalism 1. Poster on Decentralization 2.Make political map of India showing states after 1947 3.Prepare bulletin board showing scheme/ programs of government during COVID-19</p>	<p>Problem solving and case study method</p>	<p>Green board Educomp smart board NCERT textbook</p>
<p>(IV week)</p>		<p>Revision + U.T.</p>			
<p>June</p>		<p>Summer break</p>			
<p>July (I week)</p>	<p>ECONOMICS 2. Sectors of the Indian Economy</p>	<p>a)Sectors of Economic Activities b)Comparing the three sectors : Primary, Secondary and Tertiary Sectors in India c) Division of sectors as organized and unorganized Sectors in terms of ownership: Public and Private Sectors</p>	<p>Sectors of the Indian Economy 1make three dimensional model on economic activities 2make a poster on MNREGA 3prepare a collage on Public and Private Sectors 4.Prepare slides on organized and unorganized Sectors in terms of ownership</p>	<p>Interactive Explanation Method</p>	<p>Green board Educomp smart board NCERT textbook</p>

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(II week)	<p>History</p> <p>Geography</p> <p>3. Water resources (Periodic tests only and will not be evaluated)</p>	<p>REVISION</p> <p>a)Water Scarcity and b)The Need for Water Conservation and Management c)Multi-Purpose River Projects and Integrated Water Resources Management and Rainwater Harvesting</p> <ul style="list-style-type: none"> • Case Studies of Mexico • Differences, similarities and divisions Politics of social divisions 	<p>Water Resources (Periodic Tests only and will not be evaluated in board exams except map list of this chapter)</p> <p>1.Debate on Rainwater Harvesting 2.Make a poster on water conservation 3.Make the map of India and show all important dams through dot method painting</p> <p>Democracy and Diversity (Periodic Tests only and will not be evaluated in board exams)</p> <p>1.Video presentation on the story of Mexico Olympic 2.Draw the images of social division in different aspects of life 3.Role play of Martin Luther King Jr.</p>	<p>Interactive lecture method Brain storming method</p> <p>DISCUSSION METHOD</p>	<p>Green board Educomp smart board NCERT textbook</p> <p>Green board Educomp smart board NCERT textbook</p>
(III week)	<p>ECONOMICS</p> <p>3. Money and Credit</p>	<p>a)Money as a medium of exchange b)Modern forms of money c)Loan activities of Banks d)Two different credit situations e)Terms of credit Formal sector credit in India f)Self Help Groups for the Poor</p>	<p>3. Money and Credit</p> <p>1.Make a collage of coins and currency note which are not in use now a days 2Chart tabulation showing the people of different occupations and their purpose for loans 3.Make a painting of SHG of your area 4.One act play on indebtedness 5.Visit to a nearby bank and prepare the steps of house loan</p>		<p>Green board Educomp smart board NCERT textbook</p>

(IV week)	HISTORY	REVISION			
	GEOGRA PHY 4. Agriculture	a)Types of farming b) Cropping Pattern and Major Crops c)Technological and Institutional Reforms d)Impact of Globalization on Agriculture	Agriculture 1.Model on different types of farming Map Skill 2.Make a project on government policies and programmes for the interest of farmers 3.Prepare flash cards showing different crops with their geographical conditions 4.Group Discussion	Interactive lecture method	Green board Educom p smart board NCERT textbook
AUGUST (I week)	CIVICS 4. Gender, Religion and Caste	a)Gender and Politics b)Religion, Communalism and Politics c)Caste and Politics REVISION	4. Gender, Religion and Caste 1.Poster on perceptions of ideal woman 2.Musical drama how caste effect Indian politics 3.Debate on Secularism		Green board Educom p smart board NCERT textbook
	ECONOMICS				
(II and IIIweek)	HISTORY 3. The	a)The premodern world	The making of a global	Interactive Lecture	Green board

<p>(IV week)</p>	<p>making of a global world</p>	<p>b)The 19th century Era c)The Inter war Economy d)Rebuilding a World Economy</p>	<p>world</p> <p>1.painting of silk route through cave painting Project 2make a project on Biological warfare 3prepare a flowchart to show chow Britain’s decision to import food led to increased migration to America and Australia</p>	<p>Method</p> <p>Interactive Lecture Method</p>	<p>Educom p smart board NCERT textbook</p>
<p>SEPTEMBER</p>		<p>Revision + U.T.</p>		<p>Brain storming and Discussion Method</p>	<p>Green board Educom p smart board NCERT textbook</p>
<p>OCTOBER (1st week)</p>	<p>GEOGRAPHY 5 Minerals and Energy Resources</p>	<p>a)Minerals and mode of occurrence of Minerals b)Ferrous and Non-Ferrous Minerals c) Non-Metallic Minerals d)Rock Minerals e)Conservation of Minerals & Energy Resources</p>	<p>Minerals and Energy Resources</p> <p>1.Concept Map classification of Minerals 2.Model on Non Conventional sources of energy 3.Prepare a cross word game 4. draw a picture showing HAZARDS OF MINING</p>		
<p>(II week)</p>	<p>ECONOMICS</p>	<p>a)Popular Struggles in Nepal and Bolivia b)Mobilization and Organization c)Pressure Groups and Movements</p>	<p>5. Popular Struggles and Movements (to be assessed in the Periodic Tests only and will not be evaluated in board exam)</p> <p>1.Project on social issues of Nepal 2.MCQ quiz</p>		<p>Green board</p>

	<p>4. Globalization and the Indian Economy</p>	<p>a)Production across countries b)Interlinking production across countries c) Foreign Trade and integration of markets d)WTO and its impact on India</p>	<p>Globalization and the Indian Economy 1.Create a scrap books showing Indian MNC & foreign MNC with products 2.Debate on Trade Practices 3.Project on any Industry or services of your choice</p>		<p>Educom p smart board NCERT textbook</p>
(III week)	<p>HISTORY 5. Print Culture and the Modern World</p>	<p>a)The First Printed Books b)The print revolution and its impact c)The Reading Mania d)India and World of Print e)New Forms of Publication f)Print and Censorship</p>	<p>Print Culture and the Modern World 1.Chart on Print History of different countries 2.Prepare the Manuscripts 3.Make a portrait of Johann Gutenberg 4.model of first printing machine by using waste material</p>	<p>Interactive Lecture Method Story telling Method</p>	<p>Green board Educom p smart board NCERT textbook Green board Educom p smart board NCERT textbook</p>
(IV week)	<p>GEOGRAPHY6. Manufacturing Industries</p>	<p>a)Importance of manufacturing b)Contributing of Industry to National Economy c)Classification of Industries d) Industrial pollution environmental degradation</p> <p>a)Why do we need Political Parties? b) How many Parties should we have? c)National Political Parties & State Parties d)Challenges to Political Parties</p>	<p>Manufacturing Industries 1.Role play of the owner of Jute Textile and explain challenges of Jute industry 2.Group Discussion on Industrial pollution 3.Chat tabulation of classification of Industries</p> <p>Political Parties 1.Role play of a candidate during election procedure</p>		<p>Green board Educom p smart board NCERT textbook Green board Educom p smart board NCERT textbook</p>

<p>NOVEMBER R (1st week)</p>	<p>CIVICS 6. Political Parties</p> <p>ECONOMICS</p>	<p>e)How can Parties be reformed</p> <p>REVISION</p>	<p>2.Creation of scrap book showing all National Political Parties & State Parties</p> <p>3.Debate on challenges to Political Parties</p> <p>4.Presentation on booth centre on the day of election with all props</p>		
<p>(11nd week)</p>	<p>HISTORY</p> <p>GEOGRAPHY 7. Life Lines of National Economy</p>	<p>REVISION</p> <p>a)Transport – Roadways, Railways, Pipelines, Waterways, Airways</p> <p>b)Communication</p> <p>c)International Trade</p> <p>d)Tourism as a Trade</p>	<p>Life Lines of National Economy</p> <p>1.Prepare a beautiful art booklet and make different means of transportation and communication</p> <p>2.Make a brochure on Tourists destination of India</p> <p>3.Make a painting on Hilly Tracts</p>	<p>Interactive Lecture Method</p>	<p>Green board Educomp smart board NCERT textbook</p>
<p>(11nd week)</p>	<p>CIVICS 7. Outcomes of Democracy</p>	<p>a)How do we assess democracy's outcomes?</p> <p>b)Accountable, responsive and legitimate government</p> <p>c)Economic growth and development</p> <p>Reduction of inequality and poverty</p> <p>d)Accommodation of social diversity</p> <p>a)Thinking about challenges</p> <p>b) Thinking about Political Reforms</p> <p>c)Redefining democracy</p>	<p>Outcomes of Democracy</p> <p>1.Catchy slogan on democracy as the best form of government</p> <p>2.Musical drama on merits and demerits of democracy</p> <p>3.Chart tabulation on Accountable , responsive and legitimate government</p> <p>4.Speech on how social diversity accommodate</p> <p>Challenges to Democracy</p>		<p>Green board Educomp smart board NCERT textbook</p>

		<p>a)Gets familiarized with the rights and duties as a consumer; and legal measures available to protect from being exploited in markets.</p>	<p>(to be assessed in the Periodic Tests only and will not be evaluated in Board Examination.)</p> <p>1.Skit on challenges of democracy of our country 2.Project on Political Reforms And Redefining democracy</p> <p>Consumer Rights 1.Make an attractive project on Consumer Rights 2.Postes with catchy slogans on consumers awareness 3.Paste the news clippings showing consumer exploitation on A4 Sheet</p>		
January February	REVISION	ANNUAL EXAMINATION			

वार्षिक पाठ्यक्रम
विषय हिन्दी
कक्षा दसवीं
सत्र 2024-25

पाठ्यपुस्तक → क्षितिज भाग-2
पूरक पुस्तक → कृतिका भाग-2
व्याकरण →

मास	पुस्तक	उपविषय	क्रियाकलाप
अप्रैल पहला सप्ताह	व्याकरण	पद परिचय	1. घर में पड़ी तार एवं अन्य उपयोग न होने वाली वस्तुओं से चडमा बनाइए।
दूसरा सप्ताह	क्षितिज गद्य खंड	नेताजी का चस्मा	2. नेताजी की मूर्ति का चित्र बनाइए। 3. कस्बे की सार्वजनिक जगहों (स्कूल, सिनेमाघर, सीमेंट का कारखाना) आदि का मॉडल तैयार कीजिए।
तीसरा सप्ताह	क्षितिज पद्य खंड	सूरदास के पद	1. बांसुरी का चित्र बनाइए।
चौथा सप्ताह	व्याकरण	पत्र (औपचारिक/अनौपचारिक)	2. सूरदास का चित्र A पशीट पर बनाइए। 3. राधा एवं श्री कृष्ण से संबंधित मन्दिर का मॉडल बनाइए।
मई पहला सप्ताह	क्षितिज	'बालगोविन भगत'	1. रामवृक्ष बेनीपुरी का चित्र बनाइए। 2. बालगोविन भगत द्वारा बजाए जमे वाले वाद्ययंत्रों का चित्र बनाइए। 3. बालगोविन भगत का चित्र A पशीट पर बनाइए।
दूसरा सप्ताह	व्याकरण	'अलंकार', 'अनुच्छेद'	1. चौपाल का चित्र बनाइए।
तीसरा सप्ताह	पूरक पुस्तक 'कृतिका'	'माता का आँचल'	2. माता-पिता का बच्चे के साथ फोटो फ्रेम में लगाइए। 3. ग्रामीण परिवेश का दृश्य चार्ट पर चित्रित करें।

कृत्तिका	'लखनवी ऑलज'	1. लखनऊ के गवालों के चित्र एकत्रित करके कोलॉज बनाइए। 2. रैलगाड़ी का नया मॉडल बनाइए। 3. यशपाल के समकालीन कविगों के चित्रों का कोलॉज बनाइए।
व्याकरण	'वाच्या'	
	श्रीधामावकाश	
व्याकरण	'विलापन', 'संदेश', 'वाक्य', 'पत्र'	1. शिव धनुष का चित्र बनाइए। 2. परशुराम जी का फरसे के साथ चित्र A4 शीट पर बनाइए। 3. राम एवं लक्ष्मण के युद्ध, वन, राजदरबार के चित्र इकट्ठे करके कोलॉज बनाइए।
व्याकरण	'अनुच्छेद', 'ई-मेल'	1. विभिन्न फूलों के चित्रों का कोलॉज बनाइए। 2. वसंत के सुहावने मौसम की दर्शाता हुआ चित्र बनाइए। 3. काली घटाओं से घिरे आसमान का (शैडिंग) वाला चित्र बनाइए।
व्याकरण	'उत्साह'	1. मन्थू भंडारी का चित्र बनाकर उन रचनाओं के नाम लिखिए। 2. क्रांतिकारियों के चित्रों का कोलॉज बनाइए। 3. सामूहिक हड़ताल एवं नारेबाजी का दृश्य A4 शीट पर बनाइए।
व्याकरण	'संदेश', 'स्ववृत्त', 'ई-मेल', 'पत्र', 'अनुच्छेद'	1. एक छोटे बच्चे का चित्र बनाइए। 2. बच्चों द्वारा खेले जाने वाले खेलों का नया मॉडल बनाइए। 3. लहराती हुई फसल का खेत सहित चित्र बनाइए।

बारा	अदूर्ध्ववाषिक परीक्षा		
अक्टूबर पहला	कृतिका	'साना-साना हाथ जोड़ि'	1. जीप का मॉडल तैयार कीजिए। 2. भारत के पड़ोसी देशों का एक कौलॉज बनाइए।
दूसरा	क्षितिज	'नींबंतखाने में इबादत'	3. पहाड़ों पर प्राकृतिक दृश्य का चित्र बनाइए।
तीसरा	व्याकरण	'स्ववृत्त', 'ई-मेल', 'अलंकार', 'वाक्य'	1. उस समय बजाए जाने वाले प्रसिद्ध वाद्ययंत्रों का कौलॉज तैयार कीजिए। 2. A4 साइज शीट पर शाहनाई की तस्वीर बनाइए।
चौथा	व्याकरण	पत्र	1. मंगलेश डबराल के समकालीन गायकों के चित्र इकट्ठा करके कौलॉज बनाइए, 2. मंगलेश डबराल एवं उनकी संगत के अन्य सदस्यों को दर्शाता हुआ चित्र बनाइए।
नवम्बर पहला	क्षितिज	'संगतकार'	
सप्ताह	कृतिका	'मैं क्यों लिखता हूँ'	1. अज्ञेय एवं तारसप्तक के चार-पांच अन्य लेखकों के चित्रों का A4 शीट पर कौलॉज बनाइए।
दूसरा	व्याकरण	'वाच्य', 'पद परिचय', 'पत्र'	2. अज्ञेय की कोई दो अन्य रचनाएँ खोजकर लिखिए।
सप्ताह	व्याकरण	व्याकरण - अनुच्छेद	3. पाठ में दी गई कविता 'हिरोशिमा' चार्ट पर लिखिए।
तीसरा	क्षितिज	'आत्मकथ्य'	1. 'आत्मकथ्य' कविता के रचनाकार सहित छायावाद के अन्य कवियों के चित्रों का कौलॉज बनाइए।
सप्ताह	क्षितिज	संस्कृति	2. कविता की कुछ पंक्तियाँ A4 शीट पर लिखिए।
दूसरा	व्याकरण	'अनुच्छेद', 'सन्देश', 'विज्ञापन'	3. प्रसाद के समकालीन किसी अन्य कवि का उनके साथ चित्र बनाइए।
सप्ताह	व्याकरण		1. आदि काल की किसी खोज का दृश्य चित्र के माध्यम से दर्शाइए।
तीसरा	व्याकरण		2. प्राचीन चीजों से संबंधित मॉडल बनाइए।

