



D.A.V. PUBLIC SCHOOLS, ZONE - I
Syllabus - Class XI

ENGLISH

Month	Hornbill/Snapshot	Reading, Grammar & Advanced Writing Skills	Activities/ Projects	Hands-on Learning / Project Work	Art Integrated Learning
April	i. The Portrait of a Lady (Prose) ii. A Photograph (Poem) iii. The Summer of The Beautiful White Horse (Prose)	Short Writing Task: i. Classified Advertisement (a) Situation Vacant (b) Situation Wanted (c) To Let	i. Collecting ads from newspaper and pasting it in their note books. ii. Prepare visual representations of scenes from the chapter: The Portrait Of a Lady through drawings or digital art	Interview an elderly family member and prepare a life sketch. Prepare a family photo album with captions. Role-play the main characters	Draw/paint the grandmother and important scenes. Create a photo collage based on memories.
May	The Address (Prose)	Classified Advertisement (Contd.) (d) For Sale (e) For Purchase (f) Travel and Tour (g) Educational	Creative Writing: Write a continuation of the story, imagining what happens to Mrs. S after the events described in the story	Prepare a memory box with symbolic objects.	Design a storyboard of the story
June	i. We're Not Afraid to Dieif We Can Be Together (Prose) ii. The Laburnum Top (Poem)	i. Poster ii. Grammar: Practice of Questions On Gap Filling (Tenses, Clauses)	i. Listening skills practice test	prepare a survival kit and explain its use. Maintain a nature observation journal.	Make a collage on 'War and Humanity'
July	Discovering Tut: The saga Continues (Prose) ii. The Voice of The Rain (Poem)	Note Making and summarization ii. Grammar: Question on Recording/ Transformation of Sentences	i. A debate on the topic of whether artefacts from ancient civilizations such as Tutankhamun's treasures should be returned to their countries of origin or remain in museums around the world.	Mini project on Egyptian civilization Observe and record the water cycle	Make a model/ poster of Tutankhamun's tomb. Draw and label the water cycle.
PT-1					

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August	i. Mother's Day (Play)	Long Compositions i. Speech Writing ii. Debate writing	Presentation of speeches by students both oral & written	Enact a scene from the play.	Design stage props/posters or masks
Sept.	Revision Term - 1 Examination	Unseen passage: Case based passage with Verbal/Visual inputs like statistical data, chart etc.	i. Topics for assessment of speaking skills to be assigned to students		
TERM-1					
Oct.+ Nov.	Childhood (Poem) ii. Birth (Prose)	Practice on i. Classified advertisement ii. Transformation of sentences	i. Write a brief note on one of your childhood experiences (good or bad) and present the same in class. ii. Project Work to be assigned	Write and present a childhood memory	Create a memory collage
Dec.	The Adventure (Prose) Silk Road (Prose)	Comprehension of unseen passage	i. The documentary film on the Mount Kailash may be shown and students may be asked to write a brief note on it.	Enact a scene from the play.	Draw the silk Route journey map.
Jan.	i. Father to Son (Poem) ii. The Tale of Melon City (Poem)	(Revision) Note Making and summarization (Revision)	i. Have students create a visual representation of the poem, either through a collage of images or through a storyboard depicting the	Write and present a childhood memory. Conduct a family interaction and present findings. Write and perform a satirical skit complexities of Father-son relationship. ii. Submission of project. iii. ALS to be conducted.	Create a father-son relationship storyboard
	PT-2				
Feb.	REVISION AND ANNUAL EXAMINATION				

निर्धारित पुस्तकें :-

1. आरोह भाग-1, 2. वितान भाग-1
3. अभिव्यक्ति और माध्यम

हिन्दी, आधार (302)

महीना	निर्धारित पाठ्यक्रम	गतिविधियाँ	परियोजना कार्य	कला समेकित अधिगम (Art Integrated)
अप्रैल	★ गद्य: नमक का दारोगा	मुंशी प्रेमचंद की कहानियों की समीक्षा करना।	भ्रष्टाचार के दुष्परिणाम' इस विषय पर अप्रत्याशित लेखन करें।	'नमक का दारोगा' कहानी का मंचन करें
मई-जून	★ मियाँ नसीरुद्दीन ★ पद्य: कबीर ★ अपठित गद्यांश/ पद्यांश	★ विभिन्न प्रकार की रोटियों के नाम और उनकी विशेषता पर स्क्रेपबुक बनाना ★ कबीर के पदों को गायन शैली में प्रस्तुत करें।	पांच प्रमुख समाचार पत्रों के नाम लिखकर उनके प्रकाशन के वर्ष की सूची बनाएं। कबीर के 10 दोहों को संकलित करें।	पुरानी दिल्ली के पांच ऐतिहासिक स्थलों का कोलाज बनाएं। कबीर के पदों का गायन: कबीर के भजनों को संगीत की धुन पर तैयार करना
जुलाई	★ गद्य: अपू के साथ ढाई साल, विदाई संभाषण ★ पद्य: मीराबाई ★ वितान: लता मंगेशकर ★ औपचारिक पत्र	★ पथेर पांचाली' के कलाकारों के विषय में पैनल चर्चा। ★ मीराबाई के पदों का गायन। ★ भारतीय गायिकाओं में बेजोड़: लता मंगेशकर' के आधार पर एक साक्षात्कार का आयोजन	★ पथेर पांचाली फिल्म के विभिन्न पात्रों का परिचय दें। ★ मीराबाई का जीवन वृत्त तैयार करें ★ लता मंगेशकर द्वारा गाए गए शास्त्रीय संगीत पर आधारित गीतों की गीतमाला बनाएं।	★ कोलाज मेंकिंग: सत्यजीत रे की फिल्मों और भारतीय सिनेमा के इतिहास पत्र चित्रों का संग्रह। ★ मीरा के पद के आधार पर एक नृत्य नाटिका का प्रदर्शन। ★ ऐ मेरे वतन के लोगों का समूह गायन
	PERIODIC TEST - 1	नमका का दारोगा, कबीर के पद।		
अगस्त	★ गद्य: गलता लोहा ★ पद्य: घर की याद, चंपा काले-काले अक्षर नहीं चिन्हती ★ जनसंचार (संपूर्ण भाग)	कवि सम्मेलन: 'घर की याद' कविता के आधार पर स्वरचित कविताओं का पाठ। ★ साक्षरता का महत्व	★ हाथ से बनी वस्तुओं के लिए विज्ञापन तैयार करें। ★ भवानी प्रसाद मिश्र की रचनाओं पर एक रिपोर्ट तैयार करें।	★ नुक्कड़ नाटक: 'गलता लोहा' पाठ के आधार पर जातिगत भेदभाव और गरिमा पर आधारित नाटक।

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		पर निबंध/लेख। ★ अपना एक ईमेल अकाउंट खोलना एवं अपने किसी परिचित को ईमेल भेजना।	★ चंपा काले काले अक्षर नहीं चींटी कविता के आधार पर चंपा एवं कवि के बीच कोई बातचीत का एक संवाद तैयार करें।	★ साक्षरता के महत्व पर आधारित एक नुक्कड़ नाटक का मंचन
सितम्बर	अर्धवार्षिक परीक्षा	पुनरावृत्ति		
अक्टूबर	★ गद्य: रजनी ★ पद्य: गज़ल ★ वितान: राजस्थान की रजत बूँदें ★ रचनात्मक लेखन- औपचारिक पत्र लेखन, अप्रत्याशित विषय पर लेखन, अपठित बोध	★ मन्नू भंडारी के उपन्यासों पर चर्चा ★ दुष्यंत कुमार की रचनाओं पर आधारित एक कवि सम्मेलन का आयोजन। ★ 'जल संरक्षण और पारंपरिक तरीके' पर केस स्टडी (झारखंड और राजस्थान का तुलनात्मक अध्ययन)।	★ 'रजनी' के प्रमुख पात्रों पर आधारित एक परियोजना का निर्माण ★ 'गज़ल' में आए नुक्ते वाले शब्दों का संकलन एवं उन शब्दों से वाक्य निर्माण। ★ कुंई निर्माण की संपूर्ण प्रक्रिया का सचित्र वर्णन।	★ रजनी नाटक का मंचन। ★ भारत के किसी प्रसिद्ध गज़ल गायक पर एक नाटक तैयार करें। ★ पोस्टर मेकिंग/ स्लोगन: पानी की बचत और पर्यावरण संरक्षण पर पोस्टर बनाना।
नवम्बर	★ गद्य: जामुन का पेड़ ★ पद्य: हे भूख मत मचल ★ जनसंचार (संपूर्ण)	★ 'भ्रष्टाचार और लालफीताशाही' (जामुन का पेड़ के संदर्भ में) पर वाद-विवाद प्रतियोगिता ★ अक्कमहादेवी 'कन्नड़ की मीरा' इस विषय पर चर्चा।	★ जामुन के पेड़ के नीचे दबे आदमी की मृत्यु के लिए जिम्मेदार किसी एक व्यक्ति का काल्पनिक साक्षात्कार ले और उसे लिखित रूप में प्रस्तुत करें। ★ अक्कमहादेवी की रचनाओं पर एक रिपोर्ट तैयार करें।	★ कार्टून/कैरिकेचर: सरकारी व्यवस्था के ढीलेपन को दर्शाते हुए व्यंग्य चित्र बनाना ★ भूख, गरीबी और सामाजिक, असमानता पर आधारित चित्रों का एक कोलाज तैयार करें।
	PERIODIC TEST - 2	गज़ल, रजनी ।		

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दिसम्बर	★ गद्य: भारत माता ★ पद्य: सबसे खतरनाक ★ वितान: आलो आंधारि	★ 'नेहरू आधुनिक भारत के निर्माता' – इस विषय पर एक पैनल चर्चा का आयोजन। ★ समाज में व्याप्त खतरनाक स्थितियों के समापन के लिए अपने सुझाव दें। ★ घरेलू नौकरों और असंगठित क्षेत्र के मजदूरों की स्थिति पर एक सर्वे रिपोर्ट तैयार करना।	★ नेहरू के सपनों का भारत इस विषय पर परियोजना तैयार करें। ★ मेरे सपनों का भारत 'इस विषय पर अप्रत्याशित लेखन करें। ★ घरेलू सहायिकाओं के संघर्षपूर्ण जीवन पर आधारित एक परियोजना तैयार करें।	★ मानचित्र कार्य और कला: भारत माता' पाठ के संदर्भ में भारत के स्वतंत्रता आंदोलन के प्रमुख केंद्रों को दर्शाना। ★ भारत के किसी महान स्वतंत्रता सेनानी के जीवन पर आधारित एक नाटक का प्रदर्शन करें। ★ आलो आंधारि पाठ के प्रमुख पात्रों के चित्र बनाकर उनकी चारित्रिक विशेषताओं का वर्णन करें।
जनवरी	★ गद्य: आओ मिलकर बचाएँ ★ पाठ्यक्रम की पुनरावृत्ति	★ झारखण्ड अपने नाम को चरितार्थ करता प्रदेश' इस विषय पर पैनल चर्चा	झारखण्ड की जनजातीय भाषाओं पर एक परियोजना तैयार करें।	★ लोक कला संवर्धन: झारखण्ड की संथाली संस्कृति, नृत्य और प्रकृति संरक्षण के गीतों का प्रस्तुतीकरण
फरवरी	ANNUAL EXAMINATION	संपूर्ण पाठ की पुनरावृत्ति		

MATHEMATICS (CODE - 041)

Month	Unit/ Topics	Activities (Chapterwise)	Hands on Learning/ Project Work	Art Integrated Learning
April	Ch-1 Sets	Representation of sets using Venn diagrams	Survey of students' hobbies and representation through sets	Creative Venn digram design
	Ch-2 Relations and Functions	Identifying relations and functions	Prepare a chart showing different types of functions	Relation mapping art
	Ch-3 Trigonometric Functions	Measuring angles using problems	Verification of trigonometric ratios	Trigonometric art patterns
May-June	Ch-3 Continued	Solving real-life angle problems	Height and distance estimation	Geometric wall art
	Ch-5 Linear Inequalities	Number line representation	Optimization problems	Number-line artwork
July	Ch-4 Complex Numbers and Quadratic Equations	Graphical representation	Roots of equation activity	Quadratic curve designs.
PT-01	PT-1 : Chapter 1,2,3,4, 5			
August	Ch-8 Sequence and Series (G.P.)	AP and GP Identification	pattern study project	Geometric pattern artwork
	Ch-9 Straight Lines	Coordinate plotting	School mapping project	Coordinate art
Sept.	Ch-14 Probability	Coin and dice experiments	Probability record book	Probability tree art
Term-01	Half Yearly Examination	Chapters: 1,2,3,5,9,04,08,14		

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Oct.	Ch-6 Permutation and Combination	Counting Activities	Seating arrangement project	Pattern making
	Ch-7 Binomial Theorem	Pascal Triangle activity	Pascal Triangle chart	Pascal art
Nov.	Ch-13 Statistics	Data collection	Survey project	Charts and graphs
PT-02	PT-2 : Chapter 6, 7, 13			
Dec.	Ch-11 3D Geometry	Space model activity	3D coordinate model	3D geometric art
Jan.	Ch-10 Conic Sections	Conic shape identification	Model making	Conic designs
	Ch-12 Limits and Derivatives	Graphical representation	Graph plotting activity	Graph art
	Sample papers & Revision	CBSE practice	Portfolio preparation	ASSESSMENT PARAMETERS
Feb.	Annual Examination	Complete Syllabus		

CHEMISTRY

Month	Unit / Topics (Chapterwise)	Hands on Learning/ Project Work (Chapterwise)	Art Integrated Learning (Chapterwise)
April	CH-1: SOME BASIC CONCEPTS OF CHEMISTRY 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.	Activities on balancing chemical equations and determining limiting reagents	Sub-fields of Chemistry (Organic, Inorganic, Physical) and its role in daily life. Conceptual Blueprint of a "Time Machine" or an Advanced Clock mechanism.
May-June	CH-2: STRUCTURE OF ATOM Discovery of Electron, Proton, and Neutron; atomic number, isotopes, and isobars. Thomson's model and its limitations. Rutherford'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, shapes of s, p, and d orbitals, Aufbau principle, Pauli's exclusion principle, and Hund's rule.	Activities on writing electronic configuration of elements/ions. Project on the timeline of atomic models	Visual representation of 3D shapes of s, p and d orbitals using clay/write models
	CH-3: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES 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, inert gas radii, Ionization enthalpy, Electron gain enthalpy, electronegativity, valency.	Activities on plotting graphs of atomic radius vs. atomic number	Designing a creative, colour coded modern periodic table chart.

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July	CH-4: CHEMICAL BONDING AND MOLECULAR STRUCTURE 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 orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules.	Role-play on the sharing /transfer of electrons in chemical bonds. Project on different types of hybridization	Making 3D molecular structure using ball and stick models (e.g. CH ₄ , H ₂ O, NH ₃)
	PT-1 Chapter / Topics :- Some Basic Concepts of Chemistry. Structure of Atom		
August	CH-5: CHEMICAL THERMODYNAMICS Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics - internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, atomization, sublimation, ionization, solution, and dilution. Second law of thermodynamics (brief introduction). Gibbs energy change for spontaneous and non-spontaneous processes, criteria for equilibrium.	Activities on calculating enthalpy changes using Hess's law. Project on the application of Thermodynamics in everyday processes.	Conceptual chart detailing Spontaneous vs. Non-spontaneous reactions
Sept.	TERM-1 / HALF YEARLY EXAMINATION Chapter 1 - SOME BASIC CONCEPTS OF CHEMISTRY Chapter 2- STRUCTURE OF ATOM Chapter 3 -CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES Chapter 4 - CHEMICAL BONDING AND MOLECULAR STRUCTURE.		

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Oct.	CH-6: EQUILIBRIUM Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle. Ionic equilibrium - ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts, buffer solution, solubility product, common ion effect.	Activities on determining the pH of various household solutions using pH paper. Project on factors affecting chemical equilibrium	Dynamic representation /charts of Le Chatelier's Principle in action
Nov.	CH-7: REDOX REACTIONS Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.	Activities on balancing redox reactions via ion-electron and oxidation number methods.	Project on the working mechanism of an Electrochemical cell (Redox in action).
PT-2 Chapter / Topics :- Chemical Thermodynamics, Equilibrium			
Dec.	CH-8: ORGANIC CHEMISTRY - SOME BASIC PRINCIPLES AND TECHNIQUES General introduction, classification, and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance, and hyperconjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles, and nucleophiles. Types of organic reactions. Purification of organic compounds, qualitative and quantitative analysis.	Activities on identifying functional group in organic compounds. Project on purification techniques (Distillation, Crystallization, Chromatography)	3D visual mapping of electronic displacement mechanisms.

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Jan.	CH-9: HYDROCARBONS Classification of Hydrocarbons. Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions. Aromatic Hydrocarbons - Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution.	Activities on sketching conformations of Ethane (Sawhorse and Newman projections)	Creative chart on the mechanism of electrophilic aromatic substitution in Benzene
Feb.	Annual Examination (Full Syllabus)		

PHYSICS

Month	Unit / Topics (Chapterwise)	Hands on Learning/ Project Work (Chapterwise)	Art Integrated Learning (Chapterwise)
April & May	UNIT I : Physical World and Measurement Chapter1: Units and Measurement Need for measurement, Units of measurement , systems of units , SI unit, Fundamental and derived units, significant figures, Dimensions of physical quantity, dimensional analysis and its application .	To measure diameter of a small spherical/ cylindrical body and to measure internal diameter and depth of a given and beaker/ calorie meter using Vernier calipers and hence find its volume.	To make a paper scale of given least count e.g 0.2 cm, 0.5 cm.
June & July	UNIT II: KINEMATICS Chapter -2: Motion in a straight line Frame of reference, Motion in a straight line , Position time graph. Speed and velocity Elementary concept of differentiation and integration for describing motion, uniform and non uniform motion, instantaneous velocity, Average Speed, Average Velocity, uniformly accelerated motion, velocity time graph and Position time graphs Relations for uniformly accelerated motion (graphical treatment)	To measure diameter of a given wire and thickness of a given sheet using screw gauge	To measure the force of limiting friction for rolling of roller on a horizontal plane?.
	Chapter -3 : Motion in a Plane Scalar and vector quantities, position and displacement vector , general vectors and their notations ,equality of vectors ,multiplication of vectors by a real number, addition and subtraction of vectors, unit vector, resolution of vector in a plane .rectangular components, scalar and vector product of vectors, motion in a plane, case of uniform velocity and uniform acceleration -projectile motion .uniform circular motion two dimensions		

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Month	Unit / Topics (Chapterwise)	Hands on Learning/ Project Work (Chapterwise)	Art Integrated Learning (Chapterwise)
July	UNIT III: Laws of motion Chapter 4: 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. Equilibrium of concurrent forces; Static and Kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion; Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).	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	To study the variation to range of a projectile with angle of projection.
	PT-1		
August	UNIT IV - WORK, ENERGY & POWER Chapter 5: Work, Energy and Power 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, conservative forces; conservation of mechanical energy (Kinetic and potential energies). Non-conservative forces; Motion in a vertical circle; Elastic and inelastic collisions in one and two dimensions.	To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and horizontal surface.	
Sept.	Half Yearly Examination		
Oct.	UNIT V - MOTION OF SYSTEM OF PARTICLES & RIGID BODY Chapter 6: System of Particles and Rotational Motion Centre of mass of a two-particle system,	To find the force constant of a helical spring by plotting a graph between load and extension	to observe and explain the effect of heating on a bi-metallic strip.

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Month	Unit / Topics (Chapterwise)	Hands on Learning/ Project Work (Chapterwise)	Art Integrated Learning (Chapterwise)
	momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod. Moment of a force, Torque, angular momentum, laws of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).		
Nov.	UNIT VI: GRAVITATION Chapter -7 Gravitation Kepler's law of planetary motion, universal law of gravitation , Acceleration due to gravity and its variation with altitude and depth .Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite. Energy of an orbiting Satellite. UNIT VII: PROPERTIES OF BULK MATTER Chapter -8 : Mechanical properties of solids Elastic behavior, Elasticity, Stress-Strain relationship, Hook's Law, Young's Modulus, bulk modulus ,shear modulus of elasticity, Poisson's ratio, elastic energy. Application of elastic behaviour of materials (qualitative idea only).		
	PT-2		

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Month	Unit / Topics (Chapterwise)	Hands on Learning/ Project Work (Chapterwise)	Art Integrated Learning (Chapterwise)
Dec.	Chapter -9 Mechanical properties of Fluids Pressure due to a fluid column, Pascal's law and its application (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure, Viscosity, Stokes law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications, surface energy and surface tension, angle of contact, excess pressure across curved surface, application of surface tension, ideas to drops, bubbles and capillary rise. Chapter -10 Thermal properties of matter Heat, temperature, thermal expansion of solids liquid and gases, anomalous expansion of water, specific heat capacity, C_p, C_v -calorimetry, change of state - latent heat capacity. Heat transfer- conduction, convection and radiation, thermal conductivity, qualitative idea of black body radiation, Wien's displacement law, Stefan's law, green house effect	To determine the surface tension of water by capillary rise method.	To study the effect of detergent on surface tension of water by observing capillary rise
Jan.	UNIT VIII :- Thermodynamics Chapter-11 Thermodynamics 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, irreversible and cyclic process.	To study the relation between frequency and length of a given wire under tension using sonometer	To study the factors affecting the rate of loss of heat of liquid.

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Month	Unit / Topics (Chapterwise)	Hands on Learning/ Project Work (Chapterwise)	Art Integrated Learning (Chapterwise)
	UNIT IX: BEHAVIOUR OF PERFECT GASES AND KINETIC THEORY OF GASES Chapter- 12 Kinetic Theory 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 equipartition of energy(statement only) and application to specific heat capacities of gases, concept of mean free path, Avogadro's number.		
Feb.	UNIT X: OSCILLATIONS AND WAVES Chapter -13 oscillation Periodic motion-time period, frequency, displacement as a function of time ,periodic functions Simple harmonic motion and its equation, phase, oscillations of a loaded spring, restoring force and force constant ,energy in SHM, kinetic and potential energies, simple pendulum derivation of expression for its time period. Chapter-14 : Waves Wave motion- Transverse and longitudinal wave ,speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, beats.	To find the speed of sound in air at room temperature using resonance tube by two resonance positions.	
ANNUAL EXAMINATION			

BIOLOGY

Month	Unit/ Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
April	Ch-1 : The Living World	Survey and classification of local organisms	Prepare a biodiversity register of the school campus	Nature journal with sketches of local flora and fauna
	Ch-2 : Biological Classification	identification of algae, fungi, and lichens.	Collection and preservation of specimens/ images.	Kingdom-wise creative classification chart.
	Ch-3 Plant kingdom	Study of bryophytes, pteridophytes, gymnosperms.	Herbarium sheet preparation.	Evolutionary tree using Madhubani art.
May- June	Ch-4 Animal Kingdom	Identification of animal phyla through models/ charts/specimens.	Comparative study of invertebrates and vertebrates	Animal diversity collage and clay models
	Ch-5 Morphology of Flowering plants	Study of root, stem, leaf modifications.	Collection of plant specimens.	3D floral structure model.
July	Ch-6 Anatomy of Flowering Plants	Observation of T.S. of monocot and dicot stems/roots.	Microscopic slide observation.	Tissue organisation wall chart.
	Ch-7 Structural Organisation in Animals	Study of animal tissues using prepared slides.	Tissue identification activity.	Human tissue model using clay and waste materials.
	PT-1 Chapter /Topics :- The living world, Biological classification, Animal Kingdom			
Aug.	Ch-8 Cell : The Unit of Life	Observation of plant and animal cells under microscope.	Temporary mount of onion peel.	3D cell organelle model.
	Ch-9 Biomolecules	Food tests for carbohydrates, proteins, and fats.	Biomolecule identification in food samples.	Molecular structure artwork.
Sept.	Ch-10 Cell Cycle and Cell Division	Observation of mitotic stages from prepared slides	Model showing stages of cell division	Cell cycle wheel and infographic

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Month	Unit/ Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Ch-11 Photosynthesis in Higher Plants	Starch test in leaves.	Experiment showing light requirement for photosynthesis Potato osmometer experiment.	Green plant energy cycle mural.
	Term - 1 / Half Yearly Examination			
Oct.	Ch-12. Respiration in Plants	Germinating seed respiration experiment.	CO ₂ release demonstration.	Cellular respiration concept map.
	Ch-13. Plant Growth and Development	Study of plant growth regulators.	Seed germination and observation of the stage.	Timeline poster of plant growth stages.
Nov.	Ch-14 Breathing and Exchange of Gases	Measure breathing rate during exercise.	Lung capacity activity using balloons.	Respiratory system poster.
	Ch-15 Body Fluids and Circulation	Blood group study (Practical & demonstration)	Heart pulse rate investigation.	Working heart model.
	PT-2 Chapter /Topics :- Respiration in Plants, Plant Growth and Development, Breathing and Exchange of Gases, Body Fluids and Circulation.			
Dec.	Ch-16 Excretory Products and their Elimination	Kidney structure studying.	Water balance observation chart.	Excretory system model.
	Ch-17 Locomotion and Movement	Study of joints and muscle movements with artificial human skeleton.	Joint mobility activity.	Skeletal system model.
Jan.	Ch-18 Neural Control and Coordination	Reflex action experiments.	Sensory response activities.	Brain hemisphere artwork and model preparation.
	Ch-19 Chemical Coordination and Integration.	Study of endocrine glands.	Hormone-related case studies.	Endocrine gland chart and clay model.
	February 2027 : Annual Examination			

ACCOUNTANCY

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
April	<u>CH-1 INTRODUCTION TO ACCOUNTING</u> 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.	Activities on Rules of Debit & Credit	Role of Accounting in Business	Sub Fields of Accounting
May-June	<u>CH-2: Basic Accounting Terms-</u> 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)	Activities on Listing the different types of Assets	Collection of source documents, preparation of vouchers, recording of transactions with the help of vouchers	Basis of Accounting
	<u>CH-3: Theory Base of Accounting:</u> • Fundamental accounting assumptions: GAAP: Concept • Basic Accounting Concept: Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism,	Activities on going concern concept	Project on Dual Aspects	Money Measurement concept

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	• Materiality and Objectivity			
	<u>CH-4: System of Accounting.</u> Bases of Accounting: cash basis and accrual basis	Activities on Cash Basis and Accrual Basis of Transaction	Project on Cash Basis of transaction	On Cash and Credit transactions
	<u>CH-5: Accounting Standards:</u> Applicability of Accounting Standards (AS) and Indian Accounting Standards (Ind AS & IFRS)	Activities on AS-16	Project on Types of IAS	Structure of IFRS
July	<u>CH-6 Accounting Equation</u> Approach: Meaning and Analysis Rules of Debit and Credit.	Role play on conversion of transactions into Accounting Equations	Project on Different transactions for Accounting Equations.	Format for Accounting Equations
	<u>CH-7: Double Entry System :-</u> Meaning, Characteristics, Classifications of Accounts, Stages, Advantages/causes, Demerits	Activities on Types of Account	Project on Causes of Double Entry System	Recording of Transactions.
	<u>CH-8: Recording of Business/ Origin of transactions:</u> Transactions. • Voucher and Transactions: Source documents and Vouchers, Preparation of Vouchers.	Activities on Types of Vouchers	Project on Source documents	Voucher preparation
	<u>CH:-9 Books of Original Entry- Journal</u> Meaning and format, features, Merits and Demerits, Rules of Journalising, Recording of	Activities on Principles/rules of Account	Projects on Modern Rules of recording	Journalising the Transaction

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	transactions.			
	<u>CH-10: Accounting for Goods and Services Tax(GST)</u> Meaning, Taxes Merged, GST rate structure, objectives and advantages, Types of Taxes under GST, Accounting Procedures.	Activities on GST Calculation	Projects on Types of GST	Structure of GST
	<u>CH-11: Cash Book</u> Meaning, Types, Difference Between Cash A/c and Cash Book, Petty Cash Book, Recording Entries in Cash Book.	Activities on poisting in Cash Book	projects on types of cash Book/ Petty Cash Book.	Recording Entries in Cash Book.
	<u>Ch-12 :Special Purpose books:</u> • Cash Book: Simple, cash book with bank column and petty cashbook • Purchases book, Sales book Purchases return book Sales return book • Journal proper Note: Including trade discount, freight and cartage expenses for simple GST calculation.	Activities on Purchase/Sales Book preparation	project on types of Subsidiary Books	Posting in subsidiary books
	PT:- 1 Chapter / Topics:- Books of Original Entry- Journal, Accounting for Goods and Service Tax (GST)			
August	<u>CH-13: Ledger & Trial Balance:</u> Format, Posting from journal and subsidiary books, Balancing of accounts	Activities on Ledger posting	Project on Trial Balance preparation	Format of Trial Balance

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	<u>CH-14:Bank Reconciliation</u> Statement: Need and preparation, Bank Reconciliation Statement	Activities on different causes of difference in balance	Project on Need of Bank reconciliation Statement	Format of Bank Reconciliation Statement
SEPTEMBER : TERM :- 1/ HALF YEARLY EXAMINATION				
October	<u>CH- 15 Depreciation, Provisions and Reserves:</u> Depreciation: Meaning, Features, Need, Causes, factors Other similar terms: Depletion and Amortisation. Methods of Depreciation: i. Straight Line Method (SLM) ii. Written Down Value Method (WDV) Note: Excluding change of method • Difference between SLM and WDV; Advantages of SLM and WDV. Method of recoding depreciation i. Charging to asset account ii. Creating provision depreciation/ accumulated depreciation account • Treatment of disposal of asset • Provisions, Reserves, Difference Between Provisions and Reserves. Types of Reserves: i. Revenue reserve ii. Capital reserve iii. General reserve iv. Specific reserve v. Secret Reserve Difference between capital and revenue reserve.	Activities on Calculation of Depreciation	Project on factors responsible for Depreciation	Machine A/c Provision for Depreciation A/c.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Nov.	<u>CH-16: Trial balance and Rectification of Errors:</u> • Trial balance: objectives, meaning and preparation (Scope: Trial balance with balance method only). Errors: classification-errors of omission, commission, principles, and compensating; their effect on Trial Balance. Detection and rectification of errors; (i) Errors which do not affect trial balance (ii) Errors which affect trial balance preparation of suspense account.	Activities on Preparation of Trial Balance	Projects on types of Errors.	How to Rectify the Errors.
PT:-2 Chapter / Topics : Depreciation, Provisions and Reserves				
Dec.	<u>CH-17. Financial Statements:</u> Meaning, objectives and importance; Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journal entry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit. Preparation. Balance Sheet: need, grouping and marshalling of assets and liabilities. Preparation.	Activities on Capital Expenditure	Projects on list of Assets and Liabilities	Trading A/c, P&L A/c. Balance Sheet.
	<u>CH-18 Adjustments in preparation of financial statements :</u> With respect to closing stock, outstanding expenses, prepaid	Activities on different types of adjustments	Project on Bad Debt treatment	Preparation of Financial Statement with all adjustments.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	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. Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments.			
Jan.	CH-19: Incomplete Records Features, reasons and limitations. Ascertainment of Profit/Loss by Statement of Affairs method. (excluding conversion method)	Activities on Statement of Affairs	Opening & Closing Statement of Affairs.	Statement of Profit & Loss A/c.
FEBRUARY 2027 : ANNUAL EXAMINATION				

ECONOMICS

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
April	<u>Introduction - Economics</u> What is Economics; meaning of microeconomics and macroeconomics; positive and normative economics; central problems of an economy. <u>Introduction - Statistics</u> Meaning, scope, functions and importance of statistics in Economics.	• Group Discussion • Quiz • Concept Mapping	Mind Map on Central Problems of an Economy	Design a poster on the Economy
May- June	<u>Introduction</u> Concepts of production possibility frontier and opportunity cost. <u>Consumer's Equilibrium and Demand</u> Meaning of utility, marginal utility, law of diminishing marginal utility; conditions of consumer's equilibrium using marginal utility analysis. <u>Collection, Organisation & Presentation of Data</u> Collection of data - sources of data, primary and secondary; sampling and its types; methods of collecting data; Census of India and NSSO. Collection, Organisation & Presentation of Data Organisation of data: meaning and types of variables; frequency distribution.	• Problem Solving • Case Study • Group Activity • Quiz	Project: Role and importance of Statistics in Economics	Design a poster showing the importance of statistics in economics.
June	Periodic Text - 1 (Chapter / Topic)			

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
July	<u>Consumer's Equilibrium and Demand</u> Indifference curve analysis of consumer's equilibrium; demand; market demand; determinants of demand; demand schedule; demand curve and its slope; movement along and shifts in the demand curve. <u>Collection, Organisation & Presentation of Data</u> Presentation of data - tabular and diagrammatic presentation; bar diagram; pie diagram; histogram; polygon; ogive; arithmetic line graph.	• Problem Solving • Case Study • Group Activity • Quiz	Project: Role and importance of Statistics in Economics	Design a poster showing the importance of statistics in economics.
	Periodic Text - 2 (Chapter / Topic)			
August	<u>Consumer's Equilibrium and Demand</u> Price elasticity of demand; factors affecting price elasticity of demand; measurement of price elasticity of demand. <u>Statistical Tools and Interpretation</u> Measures of Central Tendency - Arithmetic Mean.	• Problem Solving • Case Study • Group Activity • Quiz	Numerical problems on price elasticity of demand	Prepare a chart showing affecting price elasticity of demand with examples
Sept.	Term - 1 / Half Yearly Examination			
Oct.	<u>Producer Behaviour and Supply</u> Meaning of production function - short run and long run; total product, average product, marginal product; returns to a factor. Statistical Tools and Interpretation Measures of Central Tendency - Median and Mode.	• Group Discussion • Quiz • Concept Mapping	Numerical problems on production function and returns to a factor	Draw total, average and marginal product curves and returns to a factor

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Nov.	Producer Behaviour and Supply Cost - short run cost: total cost, total fixed cost, total variable cost, average variable cost, average fixed cost, average cost and marginal cost, and their relationship. Revenue - total, average and marginal revenue, and their relationship. Statistical Tools and Interpretation Correlation - meaning and properties; scatter diagram.	• Problem Solving • Case Study • Group Activity • Quiz	Analyse how a local small business manages its fixed and variable costs during peak and off-peak season.	Construct a schedules and graphs chart demonstrating how TP, MP and AP change across the three stages of the Law of Variable Proportions.
	Periodic Text - 3 (Chapter / Topic) _____			
Dec.	Producer Behaviour and Supply Producer's equilibrium - meaning and conditions in terms of marginal revenue - marginal cost; supply, market supply, determinants of supply, movement along and shift in supply, price elasticity of supply. Statistical Tools and Interpretation Correlation - Karl Pearson's method, Spearman's rank correlation.	• Group Activity • Quiz	Market Survey visit a local vegetable market (Mandi) and a branded retail store, document and compare how prices are determined based on competition levels.	Collage Making: Create a multimedia collage "The Faces of the Market," classifying monopoly, oligopoly and perfect competition.
Jan.	Perfect Competition - Price Determination & Applications Perfect competition - features; determination of market equilibrium and effects of shifts in demand and supply (short run only); simple applications - price ceiling, price floor. Statistical Tools and Interpretation Introduction to index numbers -	• Problem Solving • Case Study • Group Activity • Quiz	Case Study on Government interventions. Analyse the impact of price ceilings (e.g. rent control, subsidised food grains) and price floors (e.g. MSP for farmers)	3D interactive Model-build a movable cardboard/string based graph model showing how demand and supply curves shift and track changes in equilibrium price

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Jan.	meaning, types (WPI, CPI, index of industrial production), uses; inflation and index numbers; simple aggregative method.			
FEBRUARY 2027 – ANNUAL EXAMINATION				

BUSINESS STUDIES

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
April	CHAPTER-1 Evolution and Fundamentals of Business History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy. Business - meaning and characteristics. Business, profession and employment -concept Objectives of business Classification of business activities - Industry and Commerce Industry-types: primary, secondary, tertiary Meaning and subgroups Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) - meaning. Business risk-Concept.	•Role play on trader and customer interaction • quiz on business terms • Group discussion on "Importance of Commerce"	Map work showing major trade centres of India. Chart on auxiliaries to trade. Survey of nearby business activities	•Poster making on "Journey of Trade in India." - Collage on traditional Indian trading communities

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
May - June	CHAPTER -2 Forms of Business organizations Sole Proprietorship-Concept, merits and limitations. Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners. Hindu Undivided Family Business: Concept. Cooperative Societies-Concept, merits, and limitations.	- Classroom debate on "Best Form of Business". - Partnership deed activity.	Prepare comparison chart of business organizations.	Business organisation tree diagram
July	CHAPTER -2 Forms of Business organizations Sole Company - Concept, merits and limitations; Types: Private, Public and One Person Company - Concept. Formation of company - stages, important documents to be used in formation of a company. Choice of form of business organization.	Case study discussion.	Visit a local business firm and prepare report	Logo designing activity for imaginary companies.
	CHAPTER -3 Public, Private and Global Enterprises Public sector and private sector enterprises - Concept.	Group presentation in MNCs.	Collect information about famous indian PSUs and MNCs	Poster on "Make in India." Creative infographic on Public vs Private Sector

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company. Global Enterprises - Feature Joint venture Public private partnership - concept.			
PT:- 1 Chapter / Topics : Chapter - 1 (Forms of Business Organizations)				
Aug.	CHAPTER -4 Business services - meaning and types. Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account. Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking: meaning, types of digital payments. Insurance - Principles. Types - life, health, fire and marine insurance - concept. Postal Service - Mail, Registered Post, Parcel, Speed Post, Courier - meaning.	• Banking form filling activity. • Mock insurance claim activity.	• Visit to bank/post office. • Prepare flow chart of banking services.	• Advertisement design for banking /insurance service
	CHAPTER -5 Emerging Modes of Business Emerging Modes of Business E-business: concept, scope and benefits. Revision	• Online Shopping simulation. • Discussion on digital payments	• Create mock e-business website layout. • Survey on online shopping habits.	• Poster on "Digital India."

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Sept.	Term-1 / Half Yearly Examination			
Oct.	CHAPTER -6 Social Responsibility of Business and Business Ethics. Concept of social responsibility. Case of social responsibility. Responsibility towards owners, investors, consumers, employees, government and community. Role of business in environment protection. Business Ethics - Concept and Elements.	• Case study on ethical business practices. Group discussion on CSR. • Slogan writing on environmental protection.	• Project on eco-friendly businesses. • Prepare ethics code for school business fair.	• Slogan writing on environmental protection.
	CHAPTER -7 Sources of Business Finance. Concept of business finance. Owners' funds- equity shares, preferences share, retained earnings. Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD)	• Finance source matching game. • Debate on equity vs debt finance.	• Prepare table comparing finance sources. • Collect share market information.	• Pie chart and infographic creation.
Nov.	CHAPTER -8 Small Business and Enterprises 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.	• Role play as entrepreneur and investor. • Group discussion on start up ideas. Case study on successful entrepreneurs.	• Interview a local entrepreneur. Prepare business plan for small business. • Survey on small businesses.	• Design logo for startup idea • Poster on "Be an Entrepreneur". Collage on Indian entrepreneur.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act). Role of small business in India with special reference to rural areas. 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.			
	PT:-2 Chapter / Topics :- Chapter - 6 (Social Responsibility of Business and Business Ethics) and Chapter - 7 (Sources of Business Finance)			
Dec.	CHAPTER -9 Internal trade - meaning and types services rendered by a wholesaler and a retailer. Types of retail-trade-Itinerant and small scale fixed shops retailers. Large scale retailers-Departmental stores, chain stores - concept. GST (Goods and Services Tax): Concept and key-features	• Mock buying and selling activity. • Debate on online vs offline retailing. GST awareness quiz.	• Visit to local wholesale/Retail market. • Prepare chart on types of retailers. Survey on consumer buying behaviour.	Advertisement design for retail shop. Poster on "One Nation One Tax - GST" Draw retail distribution Channels.
Jan.	CHAPTER -10 International Trade International trade: concept and benefits. Export trade - Meaning and procedure. Import Trade - Meaning and procedure.	• Role play on export-import process. • Group discussion on benefits of international trade.	• Prepare file of trade documents (Invoice, Bill of Landing, Letter of Credit etc.) • Map work on . major exporting countries.	• Poster on "Global Trade". • Collage on inter-national products and brands. • Creative chart on export procedure.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP). World Trade Organization (WTO) meaning and objectives	• Activity on trade documents identification.	• Project on India's foreign trade.	
FEBRUARY 2027 – ANNUAL EXAMINATION AND PRACTICAL EXAMINATION				

HISTORY

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
June	Introduction to World History, Theme 1: From the Beginning of Time	Prepare a flow chart showing the evolution from early ancestors to Homo sapiens.	On the map of Africa mark and locate the sites related to early humans 1. Chad 2. Sudan 3. Ethiopia 4. Tanzania 5. Democratic Republic of Congo 6. Mozambique #the map of Europe locate the places (sites) from where the fish bones have been found.	Draw or paint silhouettes showing the stages of human evolution. Add brief facts about each stage below the artwork.
July	Theme-02- Writing and City Life	Write a short story (100-150 words) on the topic: "A Day in the Life of a Mesopotamian Scribe."	On the map of West Asia mark and locate the famous cities of Mesopotamia Q2. On the map of given below mark and locate the following 1. Zone of agricultural productivity 2. southern limit of zone of rain-fed agriculture 3. Mountainous region	Poster Making Topic: "Importance of Writing in Ancient Cities" Include : Origin of writing Cuneiform script Record keeping Trade and administration Education
PT:- 1 Chapter / Topics :				
August	Theme 03- An Empire Across Three Continents (Roman Empire)	Prepare a timeline showing major events: Foundation of Rome Beginning of the Roman Empire Reign of	Q1. On the given map mark the stretch of two continents Europe and North Africa how they are divided by Mediterranean sea	Draw and colour a map of the Roman Empire. Mark the three continents- Europe, Asia and Africa

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
		Augustus Expansion of the Empire Division into Eastern and Western Empires Fall of the Western Roman Empire	Q2. On the given map of West Asia, mark and locate the following cities : 1. Mecca 2. Medina 3. Damascus 4. Antioch 5. Edesa 6. Armenia 7. Bukhara 8. Samargand	
	Theme 05- Nomadic Empires (The Mongols)	Draw Major areas conquered by the Mongols Use arrows to show the expansion of the Mongol Empire	Q1. On the given map of South East Asia mark and locate the following places related to Mongol empire : 1. Karakorum 2. Moscow 3. Turfan 4. Merv 5. Heart 6. Balkh Q2. With the help of arrow and place, mark and locate the campaigns of the Mongols.	Create a model of a Mongol nomadic camp using chart paper, clay or recycled materials.
Sept.	Term - 1 / Half Yearly Examination			
Oct.	Theme 06 - The Three Orders (Feudal Society in Europe)	Role Play Students take the roles of : King Priest Noble	On the map of Western Europe mark and locate the following extent of feudalism : 1. St. Denis 2. Bingen	Create a timeline showing : Rise of feudalism Growth of manorialism Expansion of towns Decline of feudalism

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
		Knight Peasant Each explains their duties, rights and daily life.	3. London 4. Rome 5. Vienna	
	Theme 07- Changing Cultural Traditions (Renaissance in Europe)	Create a timeline showing important cultural changes in Europe from the 14th to the 17th century (Renaissance, Humanism, Printing Press, Reformation, Scientific Revolution)	Q1. On the map, mark and locate the following Italian States.	Design a poster on "The Renaissance: A New Beginning in Europe" using pictures, drawings, and key facts.
Nov.	Theme 10 - Displacing Indigenous Peoples	Discuss: "How did colonisation affect the lives and culture of indigenous peoples?" Each group presents three key points.	Q1. On the map of Australia mark and locate the following : 1. Perth 2. Sidney 3. Adelaide 4. Darwin 5. Melbourne 6. Canberra Q2. On the given map, mark and locate the extent of the U.S.A.	Create a poster on the theme: "Protect indigenous Peoples" Rights and Culture."
PT-3 : Chapter / Topics :				
Dec.	Theme 11- Paths to Modernisation March (China & Japan)			Mapwork: On the map of China, mark and Locate the main route of long
Jan.	Revision			
Feb. 2027	Annual Examination			

GEOGRAPHY

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
April	Ch-1 Geography as a Discipline	Activities on integration of different subjects with Geography	Mapping the Interdisciplinary tree	Branches of Geography
	Ch-1 India - Location.	Standard Meridian, EW-NS Extension on India	Map skill-States Neighbouring countries, standard meridian NS, EW Points of India.	India's Geographical Location
May-June	Ch-2 The Origin and Evolution of the Earth	Big Bang Theory timeline	The Evolution of Planets & The Moon.	Nebula Hypothesis, Big Bang Theory
	Ch-3 Interior of the Earth	Clay Model, paper model of Internal structure	Effects of Earthquake	3D Model of the earth's interior.
	Ch-2 India -Structure and Physiography	Structure of Himalaya	Map Skills: Mountains, Passes Coastal plains, Peaks, Island groups, Plateaus, Indian desert.	North-South, East West division of Himalaya
	Practical Geography Introduction to Maps			
July	Ch-4 Distribution of Oceans and continents.	Model of Continental drift theory	Map Skills-Tectonics Plates, Hotspots.	Continental drift animation, model, Plates types
	Ch-7 Composition and structure of Atmosphere	Structure of the atmosphere	Poster Making on Structure of Atmosphere	3D Model on atmosphere structure
	Ch-8 Solar Radiation Heat Balance and Temperature	World heat zones	Flow chart on heat budget	Heat budget, heat zones, temperature inversion
	Ch-3 India-Drainage System.	Drainage patterns, watershed, river regime	Map Skills-Himalayan and Peninsular drainage system.	Drainage system map

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Practical Geography Map Scale			
	JUNE : PT-1 Chapter / Topics :- Ch-1 India-Location, Ch-2 The Origin & Evolution of the Earth			
August	Ch-5 Geomorphic Processes	Weathering, Mass Wasting, Diastrophism	Different types of weathering	Weathering, Mass-wasting
	Ch-6 Landforms and their Evolution	Works of River, Wind, Glacier, Karst	Different landforms formed by agents	Models of Landforms.
	Ch-5 India-Natural Vegetation	types and distribution	Map Skills- Natural vegetation of India	Vegetation types
	Ch-6 Natural Hazards and disaster (to be tested through internal assessment)		Project work on Earthquake and Floods	
	Practical Geography Latitude, Longitude and Time			
September : Term-1/ Half Yearly Examination				
Oct.	Ch-9 Atmospheric circulation and weather system	Pressure belts	Tricellular Model	Cyclone Structure, Pressure belts.
	Ch-4 India-Climate	Monsoon mechanism.	Map Skills - High and Low rainfall zones, temperature zones rain shadow areas.	Monsoon map of India
	Practical Geography Map Projection			
Nov.	Ch-10 Water in the Atmosphere	Types of Rainfall	Condensation, Rainfall mechanism, Precipitation types	Rainfall mechanism

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Ch-11 World Climate and Climate Change (to be tested through internal assessment)		Climate zones	
	Practical Geography Topographical Map			
	PT-2 Chapter / Topics :- Ch-Atmospheric circulation and weather system, Ch-4 India-Climate, Ch-10 Water in the Atmosphere			
Dec.	Ch-12 Water (Ocean)	Hydrological cycle, Relief of ocean	Ocean features	Hydrological cycle, Ocean Relief
	Ch-14 Biodiversity and Conservation (to be tested through internal assessment)		Map Skills - Biodiversity Hotspots	Monsoon map of India
	Practical Geography Introduction to Remote Sensing			
Jan.	Ch-13 Movements of Ocean Water	Ocean Currents, Tides	Map Skills - Different Ocean Currents	Ocean Currents, Remote Sensing Systems
	Practical Geography Introduction to Remote Sensing (Continued)			
FEBRUARY - 2027 (ANNUAL EXAMINATION)				

HUMANITIES (POL. SCIENCE)

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
April	Ch-1 • Constitution: Why and How ? • Rights in the Indian Constitution	Performing Street Plays (Nukkad Natak) Role Play & Simulation Activities done on constitution day	Mock Parliament Writing a class room constitution Creative & Writing Task Critical Thinking	Rights and duties poster.
May - June	Ch-2 • Election and Representation • The Legislature	Legislature process & Role play Committee Hearings	Comparative system project Classroom Mock Election	Election activity for students
July	Ch-3 • Political Theory: An Introduction • Freedom	Interactive student activities Liberty Mapping (Negative vs. positive)	Think- pair-share- Liberty & The Harm Principle	Freedom project files Poster Making
	PT-1 :- Chapter / Topics :- 1			
August	Ch-4 • The Executive • Equality • Social Justice	Targeted brain games and inclusion exercise	Project work equality and Executive	Poster making through which the people come to know about social justice
SEPTEMBER : TERM - 1 / HALF YEARLY EXAMINATION				
Oct.	Ch-5 • The judiciary • Rights	Mock trials/Moot court to simulate courtroom procedure	Interactive civics web games to teach the separation of powers and case study analysis to help students critically evaluate past landmark judgements.	Project files on judiciary. Draw the Poster of Right

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Nov.	Ch-6 • Federalism • Citizenship	Mock Parliament or Local Government Audit	Hands - on Federalism activities Power-sharing simulation Local Councillor interview project	Designing Citizenship project files Chart paper work for Differentiate between unitary or federal form of government
	PT-2 :- Chapter / Topics :- 2			
Dec.	Ch-7 • Local Government • Nationalism	Mock municipal council, "Gram Sabha" simulation and oral history projects	Hands-on Local Government activities Local heritage Documentaries	Budget tracking projects Political cartoon Analysis
Jan.	Ch-8 • Constitution as a Living Document • The Philosophy of the constitution • Secularism	Use mock constituents Assemblies And a Debate session	Design your own Preamble Mock constituent Assemblies Quiz competition Multimedia / Video Reflection	Preamble art project Comparative chart Newspaper and case study project
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COMPUTER SCIENCE (CODE-083)

Month	Unit	Chapter	Hands on Learning	Art Integrated Learning
June	Unit-1 Computer System and Organisation	• Computer System Overview • Data Representation • Boolean logic	Identify hardware components; binary conversion exercises; truth table activity.	Create a binary-themed infographic/ poster showing how computers represents images and music.
July	Unit-2 Computational Thinking and Programming-I	• Introduction to Problem Solving • Getting started with python	Write simple Python Programs using input/ output.	Design a flowchart poster with creative illustrations.
August	Unit-2 Computational Thinking and Programming-I	• Python Fundamentals • Data Handling	Programs using variables and operators.	Create a colourful concept map of Python data types.
SEPTEMBER : TERM - 1 / HALF YEARLY EXAMINATION				
TERM II (OCTOBER - FEBRUARY)				
Oct.	Unit-2 Computational Thinking and Programming-I	• Introduction to Python modules • Flow of Control	Programs using if, loops and modules.	Draw algorithm flow diagrams with visual icons.
Nov.	Unit-2 Computational Thinking and Programming-I	• String Manipulation • List Manipulation	Programs on string/list operations.	Create a visual chart comparing string and list operations.
Dec.	Unit-2 Computational Thinking and Programming-I	• Tuples • Dictionaries	Programs using tuples and dictionaries.	Design an infographic comparing tuples vs. dictionaries
Jan.	Unit-3 Society, Law and Ethics	• Cyber Safety • Society Law And Ethics	Case study on cyber safety; presentation	Poster on responsible digital citizenship
FEBRUARY : 2027 - ANNUAL EXAM				

PAINTING

Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
April	Unit-I 1. Introduction to elements and principles of Art - (i) Point, Line, Form, Space, Colour & Texture (ii) Shadangas or Six Limbs of Indian Art 2. Pre historic rock painting- (i) Introduction, period, Location, Discover & Main Features (ii) Study of Rock painting :- Wizard's Dance (Bhimbethaka) Introduction & main Features	1. How to use Space division- Formal Division & informal Division	1. Colour wheel	Draw & Colour- 1. Rainbow on the sky 2. Morning sight landscape painting
May-June	1. Art of Indus Valley Civilization: Introduction, period, location, Main centers- (i) Harappa & Mohenjo-Daro (Now in Pakistan) (ii) Ropar, Lothal, Rangpur, Banawali, alamgirpur, Kali-Bangan and Dholavira (in India) (iii) Discoverer (iv) Main Sculptures & Medium (v) Main Features 2. Study of Sculptures Terracottas :- (i) Dancing Girl (Mohenjo-daro) (ii) Male Torso (Harappa) (iii) Mother Goddess (Mohenjo-Daro) (iv) Study of Seal-Bull seal (Mohenjo-daro) (v) Earthen ware (Jar)-Mohenjo-daro	Clay modelling Mother Goddess	Collect some images of Indus Valley sculptures & seal-Write Name, Period Place & collection	Draw & Colour- (i) Indus valley sites (pakistan and India) (ii) Composition -Market scene (iii) Object Drawing(2D)

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Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
July	Unit-II 4. Buddhist, Jain & Hindu Art :- (i) Introduction - Art during Mauryan, shunga, Kushana, & Gupta Period (ii) Main features, Study of following Sculptures : (i) Lion Capital from Sarnath (Mauryan Period) (ii) Chauri Bearer (Yakshi) from Didarganj (Mauryan period) (iii) Seated Buddha from Katra Mound / Tila (iv) Jain Tirthankara (Gupta period)	Perform various postures/Mudra of Buddha likes- Abhayamudra, Bhumispra samudra etc.	Mark the place related to the four major events of Buddha's Life-Birth, Enlightenment preaching, and Mahaparinirvana	Composition- •Buddha Image •Object Drawing -flower pot with flowers & leaves
	PT-1			
August	5. Ajanta Art : (i) Introduction, period, Location No. of caves, Chaitya & Vihara paintings & Sculptures, Subject matter, Techniques and Main Features (i) Padmapani Bodhisattva Unit - III 6. Temple Sculpture :- (i) Artistic aspects of Indian Temple - Introduction, Types of temple architecture and Main Features (6 to 13th century AD)	Story Telling- The Events related to the life of lord Buddha	Draw a diagram of Dravidian Temple Architecture with the name of its different parts	Draw & Colour beautiful composition of Railway Station (ii) Still-life
Sept.	Term-1 / HALF YEARLY EXAMINATION			
Oct.	6. Temple Sculptures :- (a) Study of temple Sculpture (i) Descent of Ganga (Pallava period), Mahabalipuram, - Introduction & Main features	Story Telling- How Bhagiratha performed severe penance and got Ganga descended from	Draw the Trumurti sculpture with black and white pencil shading	Draw & Colour Morning site landscape (ii) A beautiful still-life

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Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
	(ii) Trimurti (Elephanta caves), Maharashtra - Introduction & Main features	heaven to earth for the peace of the souls of his 100 ancestors		
Nov.	6. Temple Sculptures :- (iii) Laxmi Narayan Kandriya Mahadev Temple (Chandela Dynasty, Khajuraho, M.P.) (iv) Cymbal player Sun Temple (Ganga Dynasty, Konark, Orissa) (v) Mother and Child (Vimal-Vashahi temple, Solani Dynasty, Dilwara, Mount Abu)	High Relief sculpture- Chakra (Sun temple) (How to make 3D model)	In which major architectures marbles stone was used? Write a short note along with the origin & development	Composition Water colour mountain site landscape painting (ii) Object drawing
PT-2				
Dec.	7. Indian Bronzes (a) Introduction (origin & development and Main Features (b) Method of Bronze Casting process (i) Solid Metal Casting Process (ii) Hollow Metal Casting Process (C) Study & Appreciation of following South Indian Bronzes: (i) Natraj (Thanjavur Disst, Tamilnadu)	Draw iconic sculpture Natraj	How to create metal casting process with diagram	Composition- Kite play (iii) Object Drawing
Jan.	8. Indo-Islamic Architecture (a) Artistic Aspects of the Indo- Islamic Architecture-Introduction and Main Features (i) Qutub Minar, Delhi (ii) Gol Gumbaj of Bijapur, Karnataka	Draw a diagram of famous islamic Architecture Gol Gumbad (2D)	Write a note on the arrival of Muslims Architecture in India and its characteristics	Composition Folk Art of Jharkhand (Soharai) (ii) Object Drawing
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PHYSICAL EDUCATION

Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
April	Introduction to Physical Education	Activities on drill	Role of Physical Education teacher for students	Sub Fields of Physical health education
May-June	Changing trends and career in physical education • Meaning and definition of physical education • Aims and objectives of physical education • Career options in physical education • Khelo India program and fit India program • changing trends in sports playing surface wearable gear and sports equipment, technological advancements.	Activities on Listing the different types of khelo India program	Field marking (Volleyball and kho-kho)	Command (Attention, stand at ease, right turn, left turn)
July	Olympic value education • Olympism-Concept and Olympics values(Excellence , Friendship, and Respect) • Ancient and modern olympics • Olympic symbols, Motto, Flag, Oath, and Anthem ,Olympic movement, structure, IOC, NOC, IFS, others members	Activity on specific exercise	Special Purpose books :	Officiating
	PT-1			
August	• Yoga-Meaning and Importance of Yoga - Introduction of Astanga Yoga - Yogic kriyas (Shat Karma, Pranayama and it's types) Active lifestyle and stress management through Yoga	Demonstration of various yogic exercise Recreational games	Practice of different type of asanas	Leadership skills

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Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
	- Physical education and sports for CWSN - Sports for children with special needs, concepts of disability and disorders, types of disability, it's causes and nature (intellectual disability and physical disability) - Disability etiquettes, Aim and objectives of adaptive physical education • role of various professional for children with special needs. • Physical fitness health and wellness • Meaning and importance of wellness, health, and physical fitness • components/dimensions of wellness, health, and physical fitness, traditional sports and regional games for promoting wellness, leadership through physical activity and sports, introduction to first Aid ,PRICE			
Sept.	Term - 1 / Examination			
Oct.	• Test Measurements and evaluation • Define Test , Measurements and evaluation - Importance of Test, Measurements and evaluation in sports. - Calculation of BMI, Waist Hip Ratio, skin fold measurement • Somato types (Endomorphy,	Study of body movement Make a chart of 10 boys and calculate BMI, waist hip ratio	Draw a skeleton system	Demonstration of different types of test like chair stand test, standing board jump

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Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
	MesoMorphy and ectomorphy • Fundamental of Anatomy and physiology in sports • Definition and importance of Anatomy and physiology in exercise and sports • function of skeleton, classification of bones, types of joints , properties and functions of muscles, function and structure of circulatory system and heart			
Nov.	Fundamental of kinesiology and biomechanics in sports • definition and importance of kinesiology and biomechanics in sports • principal of biomechanics kinematics and kinetic of sports • types of body movement (flexion, extension, abduction, adduction, rotation, circumduction supination and pronation, axis and planes concept and it's application in body movements, Psychology and sports, definition and importance of psychology in physical education and sports Adolescent problem, team cohesion, psychological attributes, attention, resilience, mental toughness • training and Doping in sports Concept and principal and sports training, traiyload over load adaption and recovery, warming up and limbering	Study of trajectory	Types of throw in shot put, javelin	How to Rectify the Errors.

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Month	Unit/Topic	Chapter	Hands on Learning/ Map Work/Project Works	Art Integrated Learning
	down types method and importance, concept of skill, techniques,			
	PT-2			
Dec.		Activity on sports	Making kho-kho ground	
Jan.	• Revise changing trends and career in physical education • Olympic value • Yogic exercise • Biomechanics and kinesiology Test measurements and evaluation Children with special needs	Activity on athletics	Draw a 400 m track on chart paper	
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APPLIED MATHEMATICS

Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
April	CH-1 Binary Numbers Introduction to Binary Number System , Conversion of decimal numbers to binary system and vice-versa and its applications.	Use of prime numbers in coding and decoding of messages	Project on conservation system of Binary.	"katapayadi" Architecture- Coding Secret Message with Ancient Indian Numeration
	CH-2 Indices, Logarithm and Antilogarithm Indices and its properties, Common and Natural logarithm, Laws of logarithms, Logarithm and exponential as inverse operations, Procedure of finding logarithm and antilogarithms of given number, Applications of logarithms.	Exploring indices and its properties; Common and Natural logarithms; Law of logarithms; Logarithm and exponential as inverse operations; Procedure of finding logarithms and antilogarithms of a given number; Applications of logarithms.	Logarithms for financial calculations such as interest, present value, future value, profit/loss etc. with large values).	
	CH-3 Introduction To Bhartiya System of Numeration Introduction to Bhartiya System of Numeration	Understand the Bhartiya system and its use.		
May- June	CH-4 Quantitative Aptitude Clocks - Evaluate the angular value of a	Understanding the clock and angles formed by the hands of the clock		Students will design a vintage, detailed architectural or

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)
	minute, Measure of angle formed between two hands of clock at given time, Calculation of the time for which hands of clock meet. Calendar - Odd days in a month/ year/ century, Decode the day for the given date. Time and Work - Relationship between work and time, Comparison of the work done by the individual / group w.r.t. time. Speed, Distance and Time - The time taken/distance covered from the given data.		
	CH-6 Logical Reasoning Logical problems involving odd man out, syllogism, blood relation and coding-decoding		Project on Testing the validity of mathematical statements and framing truth tables.
July	CH-5 Sets and Relations Set as well-defined collection of objects. Representation of a set in Roster form and Set builder form		Project on The cardinality of a set and orders of infinity.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
	Different types of sets on the basis of number of elements in the set. Differentiate between equal set and equivalent set. Subsets, Power set and its elements, Universal Set, Subset of real numbers as intervals. Concept of Venn diagram to understand the relationship between sets, Problems using Venn diagram. Operations on Sets. Significance of specific arrangement of elements in a pair, Cartesian product of two sets. Expressing relation as a subset of Cartesian product, Domain and range of a relation.			
July	PT-1 Chapter/Topics - Quantitative Aptitude, Sets and Relations, Binary Numbers			
August	CH-7 Sequence and Series Differentiate between sequence and series, Arithmetic Progression, Arithmetic mean (AM) of two positive numbers, Introduction	Identifying Arithmetic Progression (AP) and Geometric Progression (GP); Finding the n^{th} term and sum of n terms of an AP and GP; Understanding Arithmetic Mean (AM)	Project on making patterns.	Art of fractals, and fractal objects.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
	of Geometric Progression (GP), n-th term of a GP, sum of n terms and sum of infinite terms of a GP, Problems based on applications of GP, Geometric mean (GM) of two positive numbers, Relation between AM and GM and related problems, Application problems based on AP and GP.	and Geometric Mean (GM); Establishing the relationship between AM and GM ($\text{AM} \geq \text{GM}$); Solving application problems.		
	CH-8 Functions and their graphs Dependent and independent variables, Definition of function using dependent and independent variable Domain, range and co-domain of a given function, Types of functions, Graphical representation of function.	Understanding the domain and range of a function; Identifying and graphing types of functions (Identity, Constant, Polynomial, Rational, Modulus, Signum, and Greatest Integer functions).	Real-world graphical mapping of functions	Creating visual geometric art layout using functional graph patterns.
Sept.	Term - 1/ Half Yearly Examination			
Oct.	CH-9 Limits and continuity Limit of a function, Continuity of a functions.	Left-hand limit, Right-hand limit, and the overall existence of limits; Standard limits; Checking the continuity of a function at a specific point	Graphically examining points of discontinuity in continuous data sets.	Graph designing and visual patterns of continuous curves vs. fractured/piecewise patterns.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
	CH-10 Differentiation Instantaneous rate of change, Finding the derivative of the functions. Algebra of derivatives, Differentiation of addition, subtraction, multiplication and division of two or more functions, Differentiation of a function of a function	Derivative as a rate of change; Geometrical interpretation of derivatives; Algebra of derivatives; Chain rule; Second-order derivatives	Project on gradient slope of a curve.	
	CH-11 Permutation and Combinations Factorial of a number, Fundamental Principle of Counting, Concept of Permutation, Simple problems based on permutations. Define combination, Difference between permutation and combination, problem based on combinations.	Factorial notation ($n!$); Fundamental principles of counting (multiplication and addition); Permutations as an arrangement and Combinations as a selection; Restrictive permutation/ combination nation problems. Practical application problems		Designing visual seating arrangement grids and colour combination matrices to represent permutations/ combinations artistically
Nov.	CH-12 Probability Random experiment and sample space with suitable examples, Event and its Types, Concept of Probability, problems based on	Random experiments, sample, spaces and events; Types of events (Mutually exclusive and exhaustive); Conditional probability and total probability	Simulating probability distributions using dice, cards, or digital token tools.	

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chaperwise)	Art Integrated Learning (Chapterwise)
	calculating probabilities in real life situations, Concept of conditional probability.			
	CH-13 Descriptive Statistics Meaning of dispersion in a data set, Range, mean deviation, standard deviation and variance. Concept of Percentile rank, Calculate and interpret Percentile rank of score in a given ungrouped data set. Concept of correlation, Karl, Pearson's coefficient of Correlation for ungrouped data, Spearman's Rank Correlation for ungrouped data, Concept of Regression analysis, Development and Independent variables, Regression Coefficients, Regression, equations, Properties of regression equations	Measures of central tendency (Mean, Median, Mode); Measures of dispersion (Range, Mean Deviation, Standard Deviation and Variance) for ungrouped and grouped data, Percentile rank; Grouped data analysis; Bivariate data distribution, correlation and Regression analysis.	Collecting, tabulating, and analyzing local data sets (e.g. school weight/ height logs, meteorological data)	Designing stylized infographics, comparative thematic bar graphs, and colour-coded scatter plots.
Nov.	PT:-2 Chapter / Topics : Differentiation, Permutations and Combinations, Probability.			

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Dec.	CH-14 Financial Mathematics Compound Interest and Annuities- Concept of interest Rates, Comparison between Nominal Interest Rate, Effective Rate and Real Interest Rate, Practical applications of interest rate w.r.t. simple and compound interest, Concept of effective rate of interest. Meaning of Immediate Annuity, Annuity due and Deferred Annuity, Future and present value of ordinary annuity, annuity due (up to 3 period), concept of Annuity in real life situation Taxes and Utility Bills- Concept of Income Tax and GST w.r.t. tax new tax guidelines, Utility bills and its various types - Electricity, Water and PNG Bills.	Interest and its types (Simple and compound); Nominal and Effective rates of interest; Types of Annuities (Present value, Future value, Sinking fund); Taxes (GST); Utility bills calculation (Electricity, Water, PNG)	Analyzing an electricity bill or water bill of one's own home, calculating consumption costs against active slabs, and assessing the tax components.	Preparing an illustrated "Financial Literacy Guidebook" or poster layout mapping out tax distributions.

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Month	Unit / Topics	Activities (Chapterwise)	Hands on Learning/ Project Works (Chapterwise)	Art Integrated Learning (Chapterwise)
Jan.	CH-15 Straight Lines Concept of slope of a line, Various forms of equation of line.	Introduction to coordinate geometry; Slope of a line and angle between two lines; Various forms of equations of a line (Parallel to axes, Point-slope-intercept form, Two point form, Intercept form, Normal form); Distance of a point from a line.	Map work plotting pathways, structural grids or shortest routes using coordinates axes.	Mandala designs or geometric pattern constructions using intersecting straight-line string art models.
	CH-16 Circles and Parabola Determination of the equations of circle and parabola as a locus of a point in a plane under certain conditions, Different form of equations of a circle, Solve problems based on applications of circle	Locus of a point; Standard equation of a circle and general equation of circle. Standard equation of a parabola and its central components.	Graphical mapping of parabolic trajectories.	Draw floral patterns.
FEBRUARY 2027 - Annual Examination				

*** According to CBSE : For class XI

Suggested Practicals using spreadsheet

1. Visualizing Functions and Their Properties: Plotting graphs of functions in GeoGebra to observe how coefficients change the graph's shape and to find out their domain and range graphically.
2. Understanding Derivatives: Constructing a tangent line to a curve in GeoGebra and observing its slope as the point moves and demonstrating the derivative as the instantaneous rate of change.
3. Personal Budgeting: Designing a comprehensive monthly budget tracker in a spreadsheet to manage income and expenditures using summation and percentage formulas.

4. Comparative Cost-Benefit Analysis: Building a decision-making model to identify the most economical purchase for a high-value product by comparing cost, shipping charges, tax and other hidden costs.
5. Descriptive Measures of Data: Using spreadsheet functions (e.g., AVERAGE, STDEV.P etc.) to compute the mean, median, mode, variance, and standard deviation of a raw dataset.
6. Interest Growth Analysis: Developing a comparative sheet for Simple vs. Compound Interest to track the growth of an investment over time.
7. Environmental & Economic Data Modelling: Analysing real-world datasets regarding local weather, inflation or AQI by generating and interpreting scatter plots, histograms, bar graphs etc. to identify correlations and seasonal trends.