JAIN VIDYA MANDIR SR. SEC. SCHOOL, SONIPAT
ANNUAL PLANNER (2023)
CLASS- 11 SCIENCE

English

Month	Particulars	Activity	Teaching Aids	Methodology
April	**Literature:** R1:Portrait of a Lady R2: We're Not Afraid to Die S1: The Summer of a Beautiful White Horse P1: A Photograph **Grammar:** Tenses and Verbs **Writing Skills:** Notice	**Activity1:** Jolt down your relationship with your elders.	Hornbill reader, Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms, etc.	Group Discussion, Class Interaction, Explanation, Demonstration, Collaboration, Lecturing, Reading
May	**Literature:** R3:Discovering Tut S2: The Address S3: Ranga's Marriage P2: The Laburnum Top **Grammar:** Determiners **Writing Skills:** Advertisement, Poster	Activity2: share your experience about villege	Hornbill reader, Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms,etc.	Debreifing, Debate, Classroom discussion, enquiry based Lecture, Values Classification, Brainstorming, Demonstration, Problem solving, Reading
June	Summer Break			

July	**Literature:** R4: Lanscape of the Soul S4: Albert Einstien at School P3: The Voice of the Rain **Grammar:** Reordering, Error-editind, omission **Writing Skills:** Letters	**Activity3:** Role Play Activity	Hornbill reader, Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms,etc.	Debreifing, Debate, Classroom discussion, enquiry based Lecture, Values Classification, Brainstorming, Demonstration, Problem solving, Group Discussion, Reading
August	**Literature:** R5: The Ailing Planet R6: The Browning Version S5: Mother's Day **Grammar:** Active Voive and Passive Voice **Writing Skills:** Report Writing	**Activity4:** Role Play Activity	Hornbill reader, Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms,etc.	Enquiry based Lectures, Classroom discussion, Demonstration, Explanation, Reading, Debate, Problem solving, Reading
September	**Revision and Half-yearly Exams**			
October	**Literature:** **R7: The Adventure** **S6: Birth** **P4: Childhood** **Grammar: Modals** **Writing Skills: Article writing**	**Activity5:** Jot down the changing relationship between the parents and childern	Hornbill reader, Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms,etc.	Enquiry based Lectures, Classroom discussion, Demonstration, Explanation, Reading, Debate, Problem solving, Reading
November	**Literature:** R8: Silk Road S7: The Tail of Melon City P5: Father to Son **Grammar:** Clauses **Writing Skills:** Speech writing	**Activity6:** Frame few lines of poetry	Hornbill reader, Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms,etc.	Enquiry based Lectures, Classroom discussion, Demonstration, Explanation, Reading, Debate, Problem solving, Reading

December	**Literature:** S8: The Ghat of Only World	**Activity7:** Define the role of a doctor in today's generation	Snapshots, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), classrooms,etc.	Enquiry based Lectures, Classroom discussion, Demonstration, Explanation, Reading, Debate, Problem solving, Reading
January	**Revision**			
February	**Revision/Examination**			
March	**Examinations**			

JAIN VIDYA MANDIR SR. SEC. SCHOOL ,SONEPAT

ANNUAL PLANNER (2023-24)

XI

INFORMATICS PRACTICES

MONTH	WEEK	TOPIC	SUB TOPIC	ACTIVITIES	METHODOLOGY	INSTRUCTIONAL/ TEACHING AIDS
April	Week –I Week-II	Computer System	Introduction, Basic computer , Input unit, output unit Organization Types of software, Transition from calculator to computer and smart devices, evolution of	Group discussion on related topics	1. Lecture cum Discussion Method 2. Illustration Method	White board, marker, duster, pointer, flash c course book

	Week-III Week-IV	Database Concepts	computers, troubleshooting computer operations Introduction, Purpose of DBMS , Relational Database Model Terminology, Brief History of MYSQL , MYSQL database system , starting MYSQL, MYSQL and SQL	Students will learn DBMS concepts. Practical demo will be given to them in lab using MYSQL to learning functioning of software	1. Lecture Method 2. Brain Storming	White board, marker, duster, pointer, Comp MYSQL software, cour book
May	Week –I	Structured Query Language (SQL)	Introduction , MYSQL Elements, SQL command Syntax, making simple queries (Insert, Update, Delete,	Demonstration of different commands and function will be delivered. And Students will learn with practical practice in lab by creating their databases, tables and	1. Lecture cum & Demonstration Method 2. Illustration method	Black board , chalk , du pointer, computer sys database software(MY

	Week-II Week-III Week-IV		Select) Selectin specific rows Logical operators Order by More on DDL	different DDL and DML statements. Time Bound Team Based Exercise related to different topics and other practical		Black board , chalk , du pointer, computer sys Python software
June		SUMMER BREAK				
July	Week-I Week-II	Getting started with Python	Introduction, Python- Pluses and Minuses, Working in Python , Understanding First Program Script	Practical demo will be given to them to work with Python and students will do their practice in software to be familiar with language	1. lecture cum Discussion Method 2. Demonstration Method	White board, marker, duster, pointer, compu system, Python Anaco distribution software

	Week-III Week-IV	Python Fundamentals	Introduction, Python character set, Tokens, Barebones of a Python Program , Variables and Assignments, Simple Input and Output	basic concepts will be practiced with the help of practical and students will try to use in short modules	1. lecture cum Discussion Method 2. Demonstration Method 3. Illustration Method	White board, marker, duster, pointer, compu system, Python Anaco distribution software
August	Week-I Week-II Week-III Week-IV	Data Handling Flow of Control	Introduction, Data types, Mutable and Immutable types , Operators, Expressions Introduction, Types of Statements in Python , Statement Flow Control, if Statements of Python , Repetition of Tasks -, range ( ), looping statements,	Students will create modules bases on math calculation like :addition, subtraction etc. using different operators and libraries Module that calculate total selling price and discount ,module related to print three integers in ascending order, to print table of a number like 5, print sum of natural numbers between 1 to10 etc.	1. lecture cum Discussion Method 2. Demonstration Method 3. Illustration Method 1. lecture cum Demonstration Method 2. Brain storming	White board, marker, duster, pointer, compu system, Python Enaco distribution software White board, marker, duster, pointer, compu system, Python Enaco distribution software

September	Revision + Half Year Examination					
October	Week-I Week-II Week-III Week-IV	List Manipulation Dictionaries	Introduction, Creating and accessing lists, lists operations, Making true copy of a list, list functions and methods, nested lists, list manipulation Introduction, Key : Value Pairs, working with dictionaries, dictionary functions and methods	Program to calculate mean of a given list of numbers, program to search for an element for an element in a given list of a numbers , program to count frequency of a given elements of a given element in a list of numbers. etc. Manipulation of dictionary with functions : Program to count the frequency of a list element using a dictionary.	1. lecture cum Discussion Method 2. Demonstration Method 1. lecture cum Discussion Method 2. Demonstration Method	White board, marker, duster, pointer, comput system, Python Enacon distribution software White board, marker, duster, pointer, comput system, Python Enacon distribution software
November	Week -I	Working with NumPy	Introduction, NumPy Arrays, NumPyDatatyps,creating	Practical related to arrary NumPy Arrays , Array slices etc.	1. lecture cum Discussion Method 2. Demonstration Method	White board, marker, duster, pointer, compu system, Python Enaco

	Week-II Week-III Week-IV		Numpy arrays working with NumPyarrays, Airthmetic operations on numpy arrays Functions with numpy arrays	(creating 1D and 2D arrays, operations performed on arrays)		distribution software
December	Week-I Week-II Week-III	Emerging Trends (Syllabus completion)	Artificial intelligence, robotics, big data, internet of things , cloud computing, grid computing , blockchain technology	Time Bound Team Based activity related to different topics.	1. lecture cum Discussion Method	White board, marker,duster, pointer,computer syst internet explore softv course book

	Week-IV					
January		Revision				
February		Revision				

Yoga

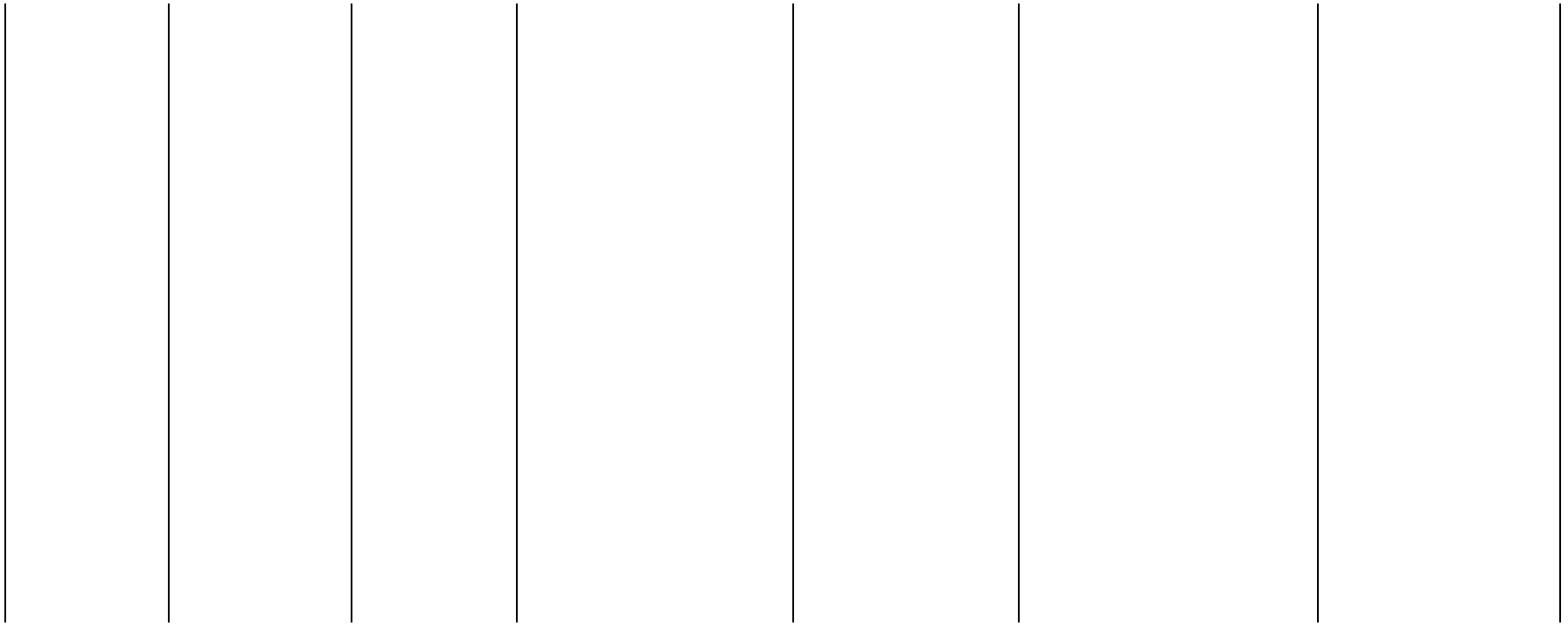
XI

Month	Week	Topic	Sub- topics	Art-Integrated	Methodology	Teaching - Aids
APRIL	**week-1,2** **week-3,4**	Unit-1 Unit-2	Communication Skills Self Management Skills	Practice of Halasana, Pawanmuktasana	Explanation	Chalk Board , duster and Smart - class
May	**Week-1,2** **Week-3,4**	Unit-3 Unit-4	ICT-Skills Entrepreneurial Skills	Practice of Asanas	Yoga Activities Explanation	Chalk Board , duster and Smart - class
June		SUMMER BREAK				

July	**Week-1,2** **Week-3,4**	Unit-5 Revision	Green Skills Green Skills	Practice of Dhyana Mudra	Revise and Explanation	Chalk board , duster and Smart - class

August	**Week-1** **Week-2** **Week-3** **Week-4**	(Part-B) Unit-1	Introduction to Yoga and Yogic Practices-1	1) Yoga Etymology, definition, Aim, objective and misconception text. 2)Yoga Origin, History and Development. 3)Rules and Regulation to be followed by yoga practitioners. 4)Introduction to major schools of yoga (Janan, Yoga Bhakti,Yoga Karma, Patanjali, Hatha. 5)Introduction to yogic practices (Sukshama Vyayama, Surya Namaskar and Asanas).		Chalk board , duster and Smart - class
September		**REVISION**				

October	**Week-1** **Week-2** **Week-3** **Week-4**	Unit-2	Introduction to Yoga Texts-1	1)Introduction and study of patanjali Yoga sutra including memorization of selected Sutra. 2)Introduction and study of Gheranda Samhita. 3)Introduction of Hata Pradpika. 4) Introduction and study of Bhagavad Gita including memorization of selected Slokas.		Chalk board , duster and Smart – class



November	**Week-1** **Week-2** **Week-3** **Week-4**	Unit-3	Introduction to Yoga and Yogic Practices-2	1) Brief introduction to human Body. 2) Role of Yoga for health promotion. 3)Yogic attitudes and practices. 4) Holistic approach of Yoga towards the health and diseases. 5) Introduction Yoga diet and its relevance and importance in Yoga Sadhana. 6) Dincharya and Ritucharya with respect of Yogic lifestyle.		Chalk board ,duster and Smart – class

December **January** **February** **March**		Unit-5 Practicals and lab Activities Revision	Yoga for Health Promotion-2 Demonstration of skill competency in lab activites and Surya Namaskar Revision Annual Exam			

MONTH	Week	TOPIC	SUBTOPIC	ACTIVITIES	METHODOLOGIES	TEACHING AIDS
April	1st week 2nd week	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	Make a poster showing the importance of chemistry in everyday life. Make a chart showing the classification of matter . On A4 size sheet write laws of chemical combination Make a poster showing different branches of Chemistry.	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board
	3rd week	STRUCTURE OF ATOM	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars.	Draw spectral lines of atomic hydrogen on A4 size sheet	• Discussion • Explanation • observation	Chalk, duster, green board, model,

	4th week		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, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.	Explain photoelectric effect with diagram on a chart. Draw boundary surface diagram of s, p and d orbitals. Show the spectrum of electromagnetic radiations on a chart paper.		smart board

May	1st week 2nd week	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. Nomenclature of elements with atomic number greater than 100	Draw modern periodic table on a piece of chart On a piece of chart draw a figure show the periodic trends of elements in the periodic table A4 size sheet show the nomenclature of elements with atomic number above 100 Write an assignment on the anomalous properties of second period elements	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board
August	2nd week	Chemical Bonding and Molecular Structure	Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar	Write Lewis representation of some molecules on a piece of chart	• Discussion • Explanation • observation	Chalk, duster, green board, model,

	3rd week 4th week		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(qualitative idea only), Hydrogen bond	Explain bond parameters on a chart paper. Write a table showing dipole moments of some molecules on an A4 size sheet. Draw shapes of molecules containing bond pair and lone pair on a chart		smart board
July	1st week	Thermodynamics	Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties,	With the help of diagram show types of system on a chart. Draw the diagram of bomb	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board

	2nd week 3rd week 4th week		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, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction) Introduction of entropy as a state function, Gibb's energy change for spontaneous and non- spontaneous	calorimeter on an A4 size sheet Write enthalpies of different types of reactions on a chart draw enthalpy diagram for lattice enthalpy of sodium chloride (born Haber cycle) on chart		

			processes, criteria for equilibrium. Third law of thermodynamics (brief introduction).			
August	1st week 2nd week 3rd week 4th week	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 poly basic acids, acid strength, concept of pH, hydrolysis of salts (elementary idea),	With the help of diagram show how to predict the direction of the reaction. Write applications of equilibrium constant Write an assignment on the significance of PH paper or universal indicator Diagrammatically show on factors affecting equilibrium	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board

			buffer solution, Henderson Equation, solubility product, common ion effect (with illustrative examples).			
October	1st week 2nd week 3rd week	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	On a piece of chart write the differences between reduction and oxidation reactions. On A4 size sheet show the different steps involved in balancing of reaction. Make a list of oxidation and reduction reactions on an A4 size sheet.	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board

				Write different types of reactions on a piece of chart.		
October Novemb er	3rd week 4th week 1st week 2nd week	Organic Chemistry -Some Basic Principles and Techniques	General introduction, methods of purification, qualitative and quantitative analysis, classification IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions,	show Classification of organic compounds on a chart Make a model to show 3D representation of methane molecule Chart show some functional group and classes of organic compounds. On an A4 size sheet show resonance effect	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board

			electrophiles and nucleophiles, types of organic reactions			
Novemb er Decemb er	3rd week 4th week 1st week 2nd	Hydrocarbons	Classification of Hydrocarbons Aliphatic Hydrocarbons: Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods	Draw conformations of ethane A4 size sheet Write an assignment on carcinogenicity and toxicity Write a report on hydrogenation Show importance of hydrocarbons with the help of a collage	• Discussion • Explanation • observation	Chalk, duster, green board, model, smart board

	week 3rd week 4th week		of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.			

			Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity			

SUBJECT- MATHS
BOOK:NCERT

MONTH	CHAPTER	TOPICS	Art Integrated activity	METHODOLOGY	TEACHING AIDS/INSTRUCT-IONAL AIDS
APRIL					
WEEK 1 WEEK 2	**Sets**	Sets and their representations. Empty set. Finite and infinite sets. Equal sets.	Make attractive Venn diagram	Explanation by Venn diagram,	Chalk board,

		Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and intersection of sets. Difference of sets. Complement of a set. Properties of Complement.	to show: 1. AUB 2. A-B 3. Only A 4. Draw a sketch of John venn	Learning by doing.	Duster, Smart Class
APRIL WEEK 3 WEEK4	**Relations and Functions**	Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of real of itself (up to R x R x R). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential,	1.*To distinguish betwee a relation and function using thread and bangle.* *2.Draw an attractive graph of constant function,* *3.modulus function* *4.signum*	Demonstration, Graphic organizers, problem solving.	Chalk board, duster, arrow diagram on chart, smart class.

MAY *WEEK 1* *WEEK 2*	**Trigonometric Functions**	logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions. Positive and Negative angles. Measuring angles in radians and degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity sin2x+cos2x =1, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin(x ±y) and cos(x±y) etc. in the terms of sin*x*, sin*y*, cosx and cosy and their simple applications. Deducting all the identities like: Tan(x± y),cot(x± y),sinα± sinβ, sin2x etc.	*function using graph and thread* Draw curve of: 1. sine 2. cosine 3. Tangent with the help of sketch or thread make a A4 Size sheet and write all formula of trigo		

MAY *WEEK 1* *WEEK 2*	**Complex Numbers and Quadratic Equations**	Need for complex numbers, especially$\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane	1. make a curve of parabola using sketch		Chalk board, Duster, Smart Class
WEEK 3 *WEEK 4*	**Linear Inequalities**	Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.	To verify that the graph of a given inequality, say 5x + 4y – 40 < 0,		Chalk board, Duster, Smart Class

			of the form ax+by+c<0, a,b>0, c<0 represents only one of the two half planes.		
UNIT TEST					
JULY WEEK 1 WEEK 2.	**Permutat-ions and Combinat-ions**	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae permutation and combination, simple applications.	1.To find the number of ways in which three cards can be selected from	Explanation, Brain storming	Chalk board, Duster, Smart Class

WEEK 3 *WEEK 4*	**Binomial Theorm**	History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.	given five cards. 2.Make a diagram to show all the ways of approaching school 3. make a game on Permutations To construct a Pascal Triangle and to write binomial expansion		
SEPTEMBER	Revision and Half Yearly Exams				
AUGUST *WEEK 1* *WEEK 2*	**Sequence and Series**	Sequence and series. Arithmetic Mean (A.M.) Geometric Progression (G.P.), general terms of G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation	1.To obtain formulae for the sum of squares of first n natural	Discovery Method, Problem Solving, Project	Chalk board, Duster, Smart Class,

		between A.M. and G.M. Formulae for the sums.	numbers. 2. Make pattern on AP 3.Make PATTERN ON G.P 3. Fibonacci spiral art		Models
SEPTEM —BER *OCTOBE R* *WEEK 1* *WEEK 2*	**Introduction to Three-dimensional Geometry**	Revision and Half Yearly Exams Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points	1.To make model of octants 2. make any 3d sketch /pattern /graphics 3.show derivation of distance formula		
	Probability	Random experiments, outcomes,			

WEEK 3 *WEEK 4*		sample spaces (set representation). Events, occurrence of events, 'not', and 'or' events, exhaustive events, mutually exclusive events, axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.	1.To show the sample space through coin when it is tossed once, two times, three times, four times. 2.Make a card game using probability		
NOVEM-BER *WEEK 1* *WEEK 2*	**Straight lines**	Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point-slope form, simple-intercept form, two-point form, intercept form ,Distance of a point from a line.	1. Make a stained glass window 2. Prepare any art work using	Heuristic Method, Project, Discussion, Problem Solving,	Chalk board, Duster, Smart Class

WEEK 3 *WEEK 4*	**Conic Sections**	Sections of a cone: ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	straight line and curve 3. Make any optical illusion through line To construct different types of conic 1. Circle 2. Ellipse 3. Parabola 4. Make fun images using conics		
DECEM-BER WEEK 1 AND 2	**Limits and Deratives**	Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric exponential	Verification of geometrical significance of derivatives.	Problem Solving, Explanation	Chalk board, Duster, Smart Class

WEEK 3 *WEEK 4*	**Statistics**	and logarithmic functions. Definition of derivative relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivates of polynomial and trigonometric functions. Measures of Dispersion: Range, Mean Deviation, variance and standard deviation of ungrouped/grouped data.			
JANUARY	UNIT TEST-2				
FEBRU-ARY	REVISION AND ANNUAL EXAMS				

MARCH	ANNUAL EXAMS

BOOKS PRESCRIBED – NCERT TEXT BOOK, NCERT EXAMPLERS, LAB MANUAL

ANNUAL PLANNER (2023-24). SUBJECT : PHYSICS CLASS : XI

Month	WEEK	Topic	Sub-Topic	Activities	Methodology	Teaching-Aids
APRIL MAY	WEEK 1 WEEK 2 WEEK 3 WEEK 4	PHYSICAL WORLD AND ENVIRONMENT MOTION IN A STRAIGHT LINE	Basic mathematics including graphs and basic calculus Need for measurement: Units of measurement; systems of units;SI units, fundamental and derived units. Significant figures. Dimensions of physical quantities, dimensional analysis and its applications. Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for	To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

	WEEK1 WEEK 2		describing motion, Uniform and non-uniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time 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.	EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

JUNE JULY	WEEK 3 WEEK 4 WEEK 1 WEEK 2	MOTION IN A PLANE	Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; **PRE VACATION EXAMS** **SUMMER VACATION** Addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion.	To determine volume of an irregular lamina using screw gauge. To determine radius of curvature of a given spherical surface by a spherometer.	EXPLANATION DISCUSSION OBSERVATION EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

AUGUST	WEEK 3 WEEK 4 WEEK 1 WEEK 2 WEEK 3	LAWS OF MOTION WORK,ENERGY	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 a level circular road, vehicle on a banked road). Work done by a constant force and a variable force; kinetic energy, work- energy		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

		AND POWER	theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: non- conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions. **EXAMINATIONS**		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
SEPTEMBER	WEEK 4					
OCTOBER	WEEK 1	System of particles and Rotational motion	Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
	WEEK 2		Equilibrium of rigid bodies, rigid body		EXPLANATION DISCUSSION	

	WEEK 3		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).		OBSERVATION	
	WEEK 4				EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
NOVEMBER	WEEK 1	Gravitation	Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth.		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
	WEEK 2		Gravitational potential energy and gravitational potential, escape velocity, orbital velocity and weightlessness Elasticity, Stress-strain relationship, Hooke's law, Young’s		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

	WEEK 3 WEEK 4	Mechanical properties of solids Mechanical properties of fluids	modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy. Pressure due to a fluid column; Pascal's law and its applications (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 simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.	To determine Young's modulus of elasticity of the material of a given wire. To find the force constant of a helical spring by plotting a graph between load and extension.	EXPLANATION DISCUSSION OBSERVATION EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

DECEMBER	WEEK 1	THERMAL PROPERTIES OF MATTER	Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
	WEEK 2		Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law .		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
	WEEK 3	THERMODYNAMICS	Thermal equilibrium and definition of temperature zeroth law of thermodynamic heat, work and internal energy. I law of thermodynamic Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal,		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL,

JANUARY	WEEk 4 WEEK 1 WEEK 2	KINETIC THEORY OF GASES OSCILLATIONS	adiabatic, reversible, irreversible, and cyclic processes. Eqn of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number. periodic motion displacement as a function of time, periodic functions and their application. Simple harmonic motion phase; oscillations of a loaded spring-	To study the relation between frequency and length of a given wire under constant tension using sonometer.	EXPLANATION DISCUSSION OBSERVATION EXPLANATION DISCUSSION OBSERVATION	SMART BOARD CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

	WEEK 3 WEEK 4		restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Wave motion: Transverse and longitudinal waves, 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. **REVISION**		EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD

TYPOGRAPHY & COMPUTER APPLICATION

MONTH	WEEK	TOPIC	SUB TOPIC	ACTIVITIES	METHODOLOGIES	INSTRUCTIONAL/TEACHING AIDS
April	Week-I Week-II	INTRODUCTION TO TYPOGRAPHY	INTRODUCTION , Learning Objectives The Typewriter , Origin. of Typewriter, Importance of Typewriter /Computer ,Categories of Typewriters , Standard	➢ History of typewriter	1. Lecture cum Discussion	White board, marker,duster, pointer, computer system, flash cards course book

	Week-III Week-4	Keyboard Operations	Typewriter ,Noiseless Typewriter ,Portable Typewriter , Electric Typewriter ,Electronic Typewriter , Computers , Laptops Introduction ,Objectives ,Keyboard ,QWERTY Keyboard , Key Types , Character Keys ,Modifier key, Sitting Posture ,Chair & Table Height	➢ will be given Group discussion will	2. Method Illustration Method	White board, marker, duster, pointer, Computer, typing software ,cours

			Guideline ,Placement of Machine ,Methods of Keyboard Operation ,Sight Method Merits of Sight Method Demerits of Sight Method ,Touch Method of Typing Merits of Touch Method Demerits of Touch Method	l b e g i v e n o n d i f f e r e n t t y p e s o f t	1. Lecture Method cum demonst ration method	e book

				ypewriter Training will be given to		

				students for touch method of typing Students will do practice of different rows using touch method in typing master After learning all rows of keyboard paragraph will be given for		

				practice		
May	Week-1 Week-2 Week-3	Computer Hardware Windows Operating System	Input devices, Output devices, Serial ports, Parallel Ports Introduction, Objectives , Logging On ,Switching between Accounts ,Features of the Windows System , Desktop , Icon ,	Hardware parts will be shown to students in lab Serial ports and parallel port of computer will be shown to students Practical knowledge will be given to students based	1. Lecture cum & Demonstration Method 2. Brain Storming 1. Lecture Method cum demonstration method	Black board , chalk , duster , pointer,computer system Black board , chalk , duster , pointer, computer

	Week-4		Window ,Dialogue Box , Start Menu ,Task Bar , Tab Menu ,Opening & Closing Application , Manipulating Windows, Maximize , Minimize , Resize , Using Computer Folder , Using window Explorer ,Navigation Pane ,Details Pane , Preview Pane Control Panel ,	on this chapter Students will save their files in different memory locations by using their own created folders		system, MS Office

			Locating Files and Folders , Search for file or Folder, creating a folder , Deleting a file or folder , Renaming a file or folder			
June		Summer - Break				
July	UT + Week-1	Introduction to Office	,Introduction to Word, Introduction to Excel, Introduction to Power Point, Introduction to Outlook ,Working with the Office Assistant ,	Creating documents ,editing documents with different features of words ,excel and	1. lecture cum Discussion Method 2. Demonstration Method	White board, marker,duster, pointer,computer system, MS office

	Week-2 Week-3	MS Word(part-1)	Office Short Cut Bar, Customizing the Office Shortcut Bar ,Exit the office shortcut bar Beginning with word a) Edit document b) Format document c) Tables & Graphics Documents prepared using MS word, Application window of MS Word,	power point Creating documents ,editing documents with different features	. Demonstration Method	White board, marker,duster, pointer,computer system, MS

				of words will be taught to students		office
July	Week-4	MS Word(part-1)	Creating a new blank document , Entering text in a document file , Inserting a text , Deleting a text, Selecting a text, Copy & paste text , Drag and drop text	Creating documents ,editing documents with different features of words will be taught to students Student	1. lecture cum Discussion Method 2. Demonstration Method	White board, marker,duster, pointer,computer system, MS office software

August	Week-1 Week-2		,Finding a text , Replacing text Using find and replace text , Auto correction , Correction of mistakes , Save As Command , Using Save As command , Using spell check features , Using Grammar check feature FORMATTING WITH WORD Formatting	s will practice practical concepts in MS word		

	Week-3 Week-4	MS WORD-PART-2	the text , Changing the text case , Applying bullets & Numbers ,Inserting a new list , Selecting an alternate bullet or number or style , Using a symbol as a bullet ,Changing the bullet colour, Changing the text alignment, Using indents and tabs , Modifying the default settings , Setting a	Apart from using different features of WORD students will be learn and practice : Mail	1. lecture cum Discussion Method	Black board , chalk , duster , pointer, computer system, MS Office

			tab stop ,Hanging indent , Setting left, center, right and decimal tab stops Working with text boxes , Using styles and themes , Moving the shapes , Changing of colour scheme , Managing Documents and customizin g word , Document Properties , Using Thesaurus , Advanced	merge, work with tables, shapes , images, lists etc.		

			Word Features , Creating & Using auto text entries , Working with Tables, Adding footer and header , Adding Footnotes & Endnotes, adding border , Mail Merge			
September		Revision + Half year Examination				
October	Week-1	Communication Skills	Session 1: Introduction to Communication Session 2: Verbal Communic	Different types of communication will be learn with the	1. lecture cum Discussion Method	White board, marker,duster, pointer,computer

	Week-2 Week-3		ation Session 3: Non-verbal Communication Session 4: Pronunciation Basics Session 5: Communication Styles — Assertiveness Session 6: Saying No — Refusal Skills Session 7: Writing Skills — Parts of Speech Session 8: Writing Skills —	help of different activities	2. Brain storming method	system

	Week-4	Self-management Skills	Sentences Session 9: Greetings and Introduction Session 10: Talking about Self Session 11: Asking Questions Session 12: Talking about Family Session 13: Describing Habits and Routines Session 14: Asking for Directions Session 1: Strength and Weakness	Time bound activities will be given to students to learn	1. lecture cum Discussi	White board, marker,duster, pointer

			Analysis Session 2: Grooming Session 3: Personal Hygiene Session 4: Team Work Session 5: Networking Skills Session 6: Self-motivation	Group discussion will be given to understand the topics	on Method 2. Brain storming method	

			Session 7: Goal Setting Session 8: Time Management			
December	Week-1	Information and Communication Technology Skills	Session 1: Introduction to ICT Session 2: Basic Interface of LibreOffice Writer 1 Session 3: Saving, Closing, Opening and Printing Document Session 4: Formatting Text in a Word Document Session 5:	Creating documents ,editing documents with different features of words will be taught to students Students will practice practical concept	1. lecture cum Discussion Method 2. Demonstration Method	White board, marker,duster, pointer,computer system, Libre Office

	Week-2		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 WriterUnit 4:	s in libre Office Apart from using differen t features of Libre Office students will be learn and practice : Mail merge, work with tables, shapes , images, lists etc.		
December	Week-3	Entrepren eurship	Session 1: Introductio	Time Bound	1. lecture	White board,

	Week-4	Skills	n to Entrepreneurship Session 2: Values of an Entrepreneur Session 3: Attitude of an Entrepreneur Session 4: Thinking Like an Entrepreneur Session 5: Coming Up with a Business Idea Session 6: Understanding the Market Session 7: Business	Team Based activity related to different topics.	cum Discussion Method	marker,duster, pointer,computer , internet explore software, Internet, course book

January February	Week-1 Week-2	Green Skills (Syllabus completion) + Revision Revision	Planning Session 1: Sectors of Green Economy Session 2: Policies for a Green Economy Session 3: Stakeholders in Green Economy Session 4: Government and Private Agencies	1. Prepare posters on green Economy 2. Motivate students to plant a tree. 3. Motivate students to buy energy efficient products 4. Motivate students to do	1. lecture cum Discussion Method 2. Brain storming method	White board, marker,duster, pointer,computer system, Google,Internet ,course book

				environment friendly jobs in their routine life. etc.		

ANNUAL PLANNER 2023-24

PHYSICAL EDUCATION

CLASS-XI

Chapter	**Sub Topics**	**Activities**	**Methodology**	**Teaching Aids**	
1. changing trends & physical education	i) Meaning & definition of physical education • Aims and objectives of physical education	Make a chart tabulation on the aims and objectives of physical education. Make a project on carrier options of physical education.	Lecture method	• Green board • Educomp smart board.	

2. Olympic value education 3. Yoga 4.Physical education & sports for CWSN children with specific need	• Career option in physical education • Competition in various sports at national and international level • Khelo - India program • Olympics, Paralympics and special Olympics • Olympic, symbols, ideals, objectives& value of Olympics • International Olympic committee. • Indian Olympic association. Meaning & importance of yoga Elements of yoga.	Make a flash card on competitions in various sports at national and international level. Make a chart on Olympic symbols. Make a project on Olympic, Para Olympic and special Olympics. Make an explanation on international Olympic committee and Indian Olympic Association. Make a flashcard on the importance of Yoga. Make a chart on the asanas, pranayamas, meditation and yogic kriyas.Make a project on elements of yoga.	Explanation method Interactive method	• Green board • Educomp smart board. • Green board	

divang. 5.Physical fitness, wellness & lifestyle 6. test, measuremen	Introduction – Asanas, pranayam, meditation & yogic kriyas. Summer break • • Meaning & importance of physical fitness, wellness & lifestyle • Components of physical fitness and wellness • Components of	Make a chart on the components of physical fitness and wellness. Make a project on the importance of physical fitness, wellness and lifestyle. Make a flash card on health related fitness. Make a flashcard on the role of various professionals for children with special needs. Make a chart on aims and objectives adaptive	Explanation method Interactive method Explanation method	• Green board	

t & evaluation	health related fitness. • Aims and object of adaptive physical education. • Organization promoting adaptive sports (special Olympics Bharat, Paralympics, Deaflympics • Concept of inclusion, its need and implementation. • Role of various professionals for children with special need. • Counsellar, occupational, therapist physiotherapist,	physical education. Make a project on organization promoting adaptive sports. Make a flashcard on leadership qualities.	Explanation and brain storming method	• Green board	

	physical education teacher, speech, therapist& special education.	Make a chart on the types of adventure sports(rock climbing, trekking, river rafting, mountaineering, surfing and paragliding). Make a project on safety measures to prevent sports injuries.	Explanation method		
7.fundamentals of anatomy physiology & kinesiology in sports.	• Leadership qualities & role of a leader • Creating leaders through physical education • Meaning, objectives & types of adventure sports (rock climbing, tracking, river, rafting, mountaineering, surfing and paragliding. • Safety measures to prevent sports injuries.	Make a chart measurement of health related fitness. Make a chart showing importance measurement and evaluation in sports. Make a flashcard on the classification of bones and types of bones. Make a project on the functions and structures	Demonstration method Explanation method		

8. Fundamentals of kinesiology and biomechanical in sports 9. psychology & sports . 10. Training and doping in sports. November December	Revision • Defining and importance of anatomy, physiology & kinesiology. • Function of speleton system and circulatory system. • Properties and function of muscles. • Equilibrium – dynamic & static and centre of gravity and its application in sports • Definition & importance of psyohology in physical	of respiratory and circulatory systems. Make a chart on equilibrium- dynamic and static and centre of gravity Make a project on the development characteristics at different stages of development. Make a flashcard on adolescent problems and their management. Make a chart on difference between Growth and development. Make a flashcard of the principles of sports training. Make a chart on the Warming up and Limbering down.	Explanation method	• Green board • Green board • **Green**	

	education & sports. • Adoleseent problems & their management. • Meaning and concept of sports training. • Principle of sports training. • Warming up & limbering down. • Skill, technique & style • Concept & classification of doping **Revision** **Annual Examination**			**board** • **Green board** • **Educomp smart board**	

January February					

XI (2023-24)
Biology (044)

Months	Week	Lesson No & Name	Activity
July	**Week -1**	1.The Living World	Study of compound microscope
	Week-2,3	2.Biological Classification	Study and description of the flowers.
	Week-4	3.Plant Kingdom	Study of specimens &identification with reasons.

August	**Week-1**	4.Animal Kingdom	Study of characters of animal specimens and identification with reasons
	Week-2	5.Morphology of Flowering Plants.	
	Week-3,4	6. Anatomy of flowering plants	Study of distribution of stomata
September	**Week-1,2**	7.Structural Organization in Animals	Preparation and study of T.S. dicot and monocot root and stem
	Week-3	8.Cell theory and cell as the basic unit of life	Study of osmosis
	Week-4	9.Biomolecules	Study of plasmolysis in epidermal peels of leaves
October	**Week-1,2**		

	Week-3,4	10.Cell division and Cell Theory	Study of mitosis (onion and grasshopper) through permanent slides
		13.Photosynthesis	Test of presence of sugar, starch, proteins and fats in plant and animal material
November	**Week-1**	14.Respiration in Plants	Comparative study of rate of transpiration
	Week-2,3	15.Plant growth and development	Study of Photosynthesis-Separation of plant pigments through paper chromatography
	Week4	17.Breathing and Respiration	Rate of respiration
December	**Week-1,2**	17.Breathing and Respiration	Different types of infloresence
	Week-3	18.Body fluids and circulation	Human skeleton and different types of joints
	Week-4	19. Excretory products and their elimination	Investigatory Project

January	**Week-1** **Week-2**	20.Locomotion and movement	Test for presence of urea and sugar in urine
		21.Neural control and coordination	Test for presence of albumin in urine
		22.Chemical control & coordination	Test for presence of bile salts in urine
February		Revision	Investigatory Project
March		Annual Exam	

Subject: - Psychology

Month	Week	Topic	Sub -Topic	Teaching Aids
April	Week -1	**What is Psychology?**	**1.** Introduction **2.** What is psychology • Psychology as discipline	Blackboard, Chalk , Duster, Course Book

			• Psychology as an natural science • Psychology as a social science	
	Week - 2		**3.** Understanding mind and behaviour **4.** Popular Nations about the Discipline of psychology **5.** Evolution of psychology	
	Week -3		**6.** Development of psychology in India **7.** Branches of psychology	
	Week -4		**8.** Psychology and other disciplines **9.** Psychology in everyday life	
May	Week - 1	**Methods of Enquiry in Psychology**	**1.** Introduction **2.** Goals of psychological enquiry • Steps in conducting scientific research • Alternatives • Paradigms of Research	Blackboard, Chalk , Duster, Course Book

	Week -2		**3.** Nature of psychological data **4.** Some important methods in Psychology • Observation method • Experimental method • Correlation Research	
	Week -3		• Survey Research • Psychological Testing • Case Study **5.** Analysis of Data • Quantitative Method • Qualitative Method	
	Week -4		**6.** Limitations of Psychological Enquiry **7.** Ethical Issues	
June			**Summer Break**	
July	Week-1	**Human Development**	**1**. Introduction **2.** Meaning of Development Life-Span Perspective on Development Factors Influencing Development	Blackboard, Chalk , Duster, Course Book

	Week-2		**3**. Context of Development **4.** Overview of Developmental Stages • Prenatal Stage	
	Week -3		• Infancy • Childhood	
	Week -4		• Challenges of Adolescence • Adulthood and Old Age	
August	Week-1	**Sensory, Attentional and Perceptual Processes**	**1**. Introduction **2**. Knowing the world **3.** Nature and varieties of Stimulus	Blackboard, Chalk , Duster, Course Book
	Week-2		**4.** Sense Modalities • Functional limitation of sense organs **5.** Attentional Processes • Selective Attention • Sustained Attention	

	Week-3		**6.** Perceptual Processes • Processing Approaches in Perception **7.** The Perceiver **8.** Principles of Perceptual Organisation	
	Week-4		**9.** Perception of Space, Depth and Distance Monocular Cues and Binocular Cues **10.** Perceptual Constancies **11.** Illusions **12.** Socio-Cultural Influences on Perception	
September	Revision		Half Yearly	
October	Week- 1	**Learning**	**1.** Introduction **2.** Nature of Learning **3.** Paradigms of Learning	Blackboard, Chalk , Duster, Course Book
	Week-2		**4.** Classical Conditioning • Determinants of Classical Conditioning **5.** Operant/Instrumental • Conditioning • Determinants of Operand	

			Conditioning • Key Learning Processes	
	Week -3		**6.** Observational Learning **7.** Cognitive Learning **8.** Verbal Learning	
	Week-4		**9.** Skill Learning **10** Factors Facilitating Learning **11.** Learning Disabilities	
November	Week -1	**Human Memory**	**1.** Introduction **2.** Nature of memory	Blackboard, Chalk , Duster, Course Book
	Week-2		**3.** Information Processing Approach : The Stage Model **4.** Memory Systems : Sensory, Short-term and Long-term Memories	
	Week-3		**5.** Levels of Processing **6.** Types of Long-term Memory • Declarative and Procedural; • Episodic and Semantic	

	Week-4		**7.** Nature and Causes of Forgetting • Forgetting due to Trace Decay, Interference and Retrieval Failure **8.** Enhancing Memory Mnemonics using Images and Organisation	
December	Week-1	**Thinking**	**1.** Introduction **2.** Nature of Thinking • Building Blocks of Thought	Blackboard, Chalk , Duster, Course Book
	Week-2		**3.** The Processes of Thinking **4.** Problem Solving **5.** Reasoning	
	Week-3		**6.** Decision-making **7.** Nature and Process of Creative Thinking • Nature of Creative Thinking • Process of Creative Thinking	

	Week-4		**8.** Thought and Language **9.** Development of Language and Language Use	
January	Week-1	**Motivation and Emotion**	**1.** Introduction **2.** Nature of Motivation	Blackboard, Chalk , Duster, Course Book
	Week-2		**3.** Types of Motives • Biological Motives • Psychosocial Motives **4.** Maslow's Hierarchy of Needs	
	Week-3		**5.** Nature of Emotions **6.** Expression of Emotions • Culture and Emotional Expression • Culture and Emotional Labelling	
	Week-4		**7.** Managing Negative Emotions **8.** Enhancing Positive Emotions	
February	Revision	**Practical (Projects, experiments, small studies)**	The students shall be required to undertake one project and conduct two experiments. The project would involve the use of	

			different methods of enquiry like observation, survey, interview, questionnaire, small studies related to the topics covered in the course (e.g. Human development, Learning, Memory, Motivation, Perception, Attention and Thinking). Experiments could focus on cause-and-effect relationship.	
March	Annual Exam			