

St. Stephen's School Birati

Syllabus 2026-27

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Aims & Objectives of Curriculum

English

- To develop and integrate among students the use of four language skills i.e. listening, speaking, reading and writing.
- To use the language affectively and appropriately on topics of everyday life and situation, to appreciate the language as an effective means of communications.
- To understand the use of correct language.
- To develop an interest in appreciation of literature.

History and Civics

- To provide the clear understanding of the functioning of government, that will stimulate the growth of students into an enlightened citizen of their country.
- To enrich the understanding of those aspects of Indian history which are required for understanding of contemporary India.
- To develop an enviable understanding among students about various aspects which have contributed to the development and growth of Indian nation, its civilization and culture.
- To develop a world historical perspective of the contribution made by varied cultures to the total heritage of mankind.

Moral Education

- To develop essential elements of morality in every student.
- To develop the values and capabilities necessary for making right decision and upright conduct.
- Develop an attitude of open mindedness to appreciate and be ready to accept others.
- To develop the skill of striving not only for good but to handle conflicting situations without demeaning self to act constructively not defensive.
- Moral values to promote the development of good character for the purpose of lessening crime and raising the standard of good citizenship.

Bengali/Hindi

- To develop language as an affective means of communication.
- To develop an interest in language and acquire knowledge of the elements of language.
- To understand the basic structural patterns of the language, vocabulary and constructions.

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Geography

- To develop the understanding of the terms, concepts and principles related to geography.
- To explain the cause- effect relationship of natural phenomena.
- To know the availability of natural resources, understand their uses and methods of conservations.
- To understand the use of natural resources and development of the regions by mankind.

Mathematics

- To acquire the knowledge and understanding the terms, symbols, concepts, principles, theorems, etc. of mathematics.
- To develop skills to apply mathematical concepts and promote their applications to further studies in mathematics and science.
- To develop skills to apply mathematical knowledge to solve real life problems.
- To develop interest in mathematics, drawing skills, skills of reading tables, charts and graphs.

Physics

- To acquire knowledge of terms, concepts, definitions, laws, principles and processes of physics.
- To develop instrumental, communications and problem-solving skills.
- To relate theoretical aspects with practical knowledge and develop a better understanding.
- Discover the growth of physics in our daily life activity.

Chemistry

- To acquire knowledge of terms, concepts, processes, techniques and principals related to the subject.
- To develop scientific temper, attitude and problem solving skills.
- To develop the ability to apply the knowledge of contents of chemistry in unfamiliar situation.

Biology

- To develop an understanding of the interrelationship between sustainability and environmental adaptation.

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- To develop an understanding of the interdependence of plants and animals, so as to enable pupils to acquire a clearer comprehensive knowledge.
- To understand the capacities and limitations of all the biological activities of man so as to be able to use it for a better quality of life.

Economics Application

- To acquire the knowledge of terms, facts, concepts, principles, trends, assumption, etc.
- To develop familiarity with the basic terminology and elementary ideas of Economics
- To acquire knowledge of contemporary economic problems and to appreciate the efforts being made to solve these problems.
- To develop an understanding of the nations physical and human resources to avoid their misuse.
- To acquire skills in interpreting simple statistical data.

Computer Application

- To enable candidates to understand ethical issues related to the field of computers.
- To develop an understanding of basic programming concepts and structures.
- To apply the programming concepts in finding the solution to real life situations by building their own applications.

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Computer

IAT:

Sl No	Content	Concept
1	Principles of Object-Oriented Programming(<i>chp-1</i>)	Programming Paradigms-POP and OOP,Features of OOP
2	Introduction to Java(<i>chp-2</i>)	Java compilation process,Features of java
3	Elementary Concepts of objects and Classes(<i>chp-3</i>)	Properties of class and object
4	Conditional Construct in java(<i>chp-8</i>)	If-else, Switch case

HALF YEARLY:

Sl No	Content	Concept
1	Principles of Object-Oriented Programming(<i>chp-1</i>)	Programming Paradigms-POP and OOP,Features of OOP
2	Introduction to Java(<i>chp-2</i>)	Java compilation process,Features of java
3	Conditional Construct in java(<i>chp-8</i>)	If-else, Switch case
4	Operators in java(<i>chp-5</i>)	Types and hierarchy in java,Special operators and Associativity of operators
5	Input in java(<i>chp-6</i>)	Different types of input in java,Errors in java,Packages and Comments in java
6	Iterative Constructs in Java(<i>chp-9</i>)	Different parts of loop,Categories of loop
7	Ethical Computing (Ch-11)	Data privacy, AI safety, and preventing malicious misuse like hacking, plagiarism, or bullying.

PROJECT: Programs on JAVA and PPT on Ethical Computing

FINAL:

Sl No	Content	Concept
1	Elementary Concepts of objects and Classes(<i>chp-3</i>)	Properties of class and object
2	Values and Types(<i>chp-4</i>)	Character set in java,Datatypes in java,Type Conversion
3	Conditional Construct in java(<i>chp-8</i>)	If-else, Switch case
4	Input in java(<i>chp-6</i>)	Different types of input in java,Errors in java,Packages and Comments in java



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5	Mathematical Library Methods(<i>ch-7</i>)	Methods of Math Class
6	Iterative Constructs in java(<i>chp-9</i>)	Different parts of loop, Categories of loop
7	Nested Loops(<i>chp-10</i>)	Pattern Programs, Break and Continue
8	User Defined Methods(From class x book)	Ways to invoke method, Function-overloading, Pure and Impure methods

PROJECT: Programs on JAVA

Practical Programs: As Per the Chapters

ENGLISH LANGUAGE

IAT :		
SL NO.	CHAPTERS	CONTENTS
1.	Letter Writing	Writing Skill
2.	Notice Writing	Writing Skill
3.	Email Writing	Writing Skill
4.	Tenses	Grammar Skill
5.	Connectors	Functional Grammar
6.	Appropriate Words	Functional Grammar
7.	Do as Directed	Functional Grammar
HALF YEARLY:		
SL NO.	CHAPTERS	CONTENTS
1.	Essay Writing	Writing Skill
2.	Letter Writing	Writing Skill
3.	Email Writing	Writing Skill
4.	Notice Writing	Writing Skill
5.	Comprehension	Writing Skill
6.	Tenses	Functional Grammar
7.	Appropriate Words	Functional Grammar
8.	Connectors	Functional Grammar
9.	Do as Directed	Functional Grammar
FINAL EXAM:		
SL NO.	CHAPTERS	CONTENTS



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1.	Essay Writing	Writing Skill
2	Letter Writing	Writing Skill
3.	Email Writing	Writing Skill
4.	Notice Writing	Writing Skill
5.	Comprehension	Writing Skill
6.	Tenses	Functional Grammar
7.	Appropriate Words	Functional Grammar
8.	Connectors	Functional Grammar
9.	Do as Directed	Functional Grammar

ENGLISH LITERATURE

IAT:

SL NO.	CHAPTERS	CONCEPTS
1.	Bonks Babu;s friend	Miracle cash occurs to anyone
2.	A Work of Artifice	Each deserve respect
3.	Oliver Asks for More	Power and ambitious
4.	I Remember, I Remember	Flashback
5.	The Model Millionaire	Destiny can [unclear]

HALF YEARLY:

SL NO.	CHAPTERS	CONCEPTS
1.	Home Coming	Miracle can occur
2.	A Work of Artifice	Each deserve respect
3.	I Remember, I Remember	Flashback
4.	The Night Mail	Responsibility
5.	The Boy Who Broke the Bank	Rumours could be dangerous
6.	The Last Lesson	Importance of mothers
7.	Julius Caesar (Full Act III)	Political intrigue

FINAL:

SL NO.	CHAPTERS	CONCEPTS
1.	The Power of Music	Absurd imagination



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2.	When Great Trees Fall	The feeling of sadness
3.	Haunted Houses	Inoffensive ghosts
4.	With the Photographer	Acknowledging and loving
5.	The Elevator	Hallucinations
6.	The Pedestrian	Influence of Technology
7.	The Last Lesson	Importance of Native
	Julius Caesar (Act IV and Act V, Scene I and II)	Political intrigue

Biology

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Basic Biology; cell and tissue (IX)	Cell(all details) Plant & animal tissues
2.	Skeleton(IX)	Functions & types; types of joints, muscles
3.	Seed(IX)	Fruit, seed(structure, germination, types etc)
4.	Endocrine system(X)	Different types of endocrine glands, hormones(secreted by all glands)

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Pollination and fertilization(IX)	Types, explanation, advantages & disadvantages, agents, characteristics features, fertilization
2.	Five Kingdom Classification(IX)	Brief outline of five kingdom classification, characteristics and examples of each kingdom/ phylum
3.	The Respiratory system(IX)	Respiratory system, organs, mechanism of breathing, tissue respiration, heat production.
4.	Absorption of Roots(X)	Absorption by roots, imbibition, diffusion & osmosis; osmotic & root pressure, turgidity and flaccidity, plasmolysis & deplasmolysis, absorption of water and minerals, active and passive transport
5.	Human Evolution(X)	Theories of evolution; human evolution, Lamarck's theory of inheritance, Darwin's theory of evolution by natural selection
	Project- POLLINATION AND FERTILIZATION	



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FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Respiration in Plants(IX)	Outline of the process, gaseous exchange, Glycolysis & Krebs cycle, aerobic & anaerobic respiration
2.	Nutrition(IX)	Classification of food, balanced diet, malnutrition and deficiency diseases. Function and sources of different nutrients etc.
3.	Digestive system(IX)	Details of teeth, organs ; digestive glands and all details related to digestive system
4.	Skin(IX)	Structure and function of various parts of skin, sweat & sebaceous gland, hair, nails & mammary gland, heat regulation
5.	Structure of Chromosome, cell cycle and cell division (X)	Different phases of cell cycle, details of mitosis, meiosis & chromosomes
6.	The Excretory system (X)	Different excretory organs, external & internal structure of the kidney, details of urinary system, brief idea of ultra-filtration
	Project- HEALTH AND HYGIENE	

PRACTICAL:

1. To examine plant cell (onion peel)
2. Identify various parts of flower(Hibiscus sp.)
3. Structure of germinating seeds
4. Human cheek cell (study various components of cells)
5. To test the presence of starch
6. Identify specimens belonging to different groups of animals
7. Study different types of movable joints in human beings (chart/ model)
8. Study of human lungs (chart/model)
9. Study of structure of skin (chart/model)

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MATH

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Rational and irrational numbers	Rational numbers – representation, properties; irrational numbers, real numbers, decimal expansions of real numbers, surds, rationalization of surds.
2.	Compound interest	Compound interest, formula, growth and depreciation.
3.	Expansions	Special products, applications.
4.	Factorization	Factorizing by taking out common factors, by grouping of terms, difference of two squares, factorization of trinomials, sum or difference of two cubes.
5.	Simultaneous linear equations	Substitution method, elimination method, cross-multiplication method, equations reducible to pair of linear equations.
6.	Triangles	Types of triangles, incircle, circumcircle, congruence of triangles, criteria for congruence, isosceles triangle, inequalities in a triangle.
7.	Mid-point theorem	Theorem and applications.
8.	Pythagoras theorem	Pythagoras theorem and applications.

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Problems on simultaneous linear equations	Word problems.
2.	Indices	Fractional indices, laws of exponents,
3.	Rectilinear figures	Rectilinear figures, quadrilaterals – types and theorems.
4.	Theorems on area	Axioms of area, equal figures, theorems on area and applications.
5.	Mensuration	Perimeter and area of triangles and quadrilaterals.
6.	Coordinate geometry	Ordered pair, coordinate system, dependent and independent variables, graphs of linear equations in two variables and graphical solution, distance formula.

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7.	Simultaneous linear equations	Substitution method, elimination method, cross-multiplication method, equations reducible to pair of linear equations.
8.	Factorization	Factorizing by taking out common factors, by grouping of terms, difference of two squares, factorization of trinomials, sum or difference of two cubes.
9.	Mid-point theorem	Theorem and applications.
10.	Pythagoras theorem	Pythagoras theorem and applications.
	PROJECT : Pythagoras theorem	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Logarithms	Definition, three standard laws.
2.	Rectilinear figures	Construction of quadrilaterals and regular hexagon.
3.	Circle	Terms related with a circle, chord properties of circles, arc and chord properties of circles.
4.	Mensuration	Circumference and area of a circle, surface area and volume of solids – cuboid, cube and cross-section.
5.	Trigonometrical ratios	Reciprocal relations, quotient relations, square relations, the value of any T-ratio in terms of a given T-ratio.
6.	Trigonometrical ratios of standard angles	T- ratios of 45° , 30° , 60° , 0° and 90° and its applications, trigonometrical ratios of complementary angles
7.	Statistics	Terms, mean and median of ungrouped data, grouped data, graphical representation of statistical data- bar graphs, histogram, frequency polygon.
8.	GST (X)	Some terms related to GST, input GST credit, GST value added tax, objectives and advantages of GST, solving problems.
9.	Linear inequations(X)	Inequalities among real numbers, linear inequations, solving linear inequations in one variable.
10.	Matrices (X)	Matrix, operations on matrices, multiplication of matrices.



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11.	Quadratic equations in one variable (X)	Roots of a quadratic equation, solving a quadratic equation by factorization, solving quadratic equations by formula, nature of roots of a quadratic equation, problems on quadratic equations.
12.	Trigonometric identities (X)	Trigonometric ratios, identities
	PROJECT: Statistics	

PHYSICS

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Motion in 1 dimension	Scalar & Vector, Rest & Motion, Speed & Velocity, Acceleration & Retardation, Displacement - Time Graph, Acceleration - Time graph and Motion under gravity.
2.	Laws of motion	Effect of force, Contact - Non contact force, Newton's 1st law, Mass & Inertia, Linear momentum & Newton's 2nd law, Units of momentum & force and Newton's 3rd law.
3.	Pressure in fluids & it's Transmission	Pressure in fluids, Pressure exerted by a liquid column, Laws of liquid pressure, Pascal's law & it's application and Hydraulic machines.
4.	Upthrust in fluids, Archimedes' principle & flotation	Buoyancy & Upthrust, Characteristics, Reason for Upthrust, Archimedes' principle, Density, Relative density and Determination of relative density of a liquid by Archimedes' principle.
5.	Current electricity	Sources of direct current, Symbols used in circuit diagrams, Simple electric current, Insulators & Conductors, Potential difference & Resistance.

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HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Laws of motion	Full Chapter
2.	Upthrust in fluids, Archimedes principle & Flotation	Full Chapter
3.	Heat	Heat and Temperature; Anomalous expansion
4.	Reflection of light	Laws of reflection & Formation of image by a plane mirror and Images formed in a pair of mirrors.
5.	Work, Energy & Power(X)	Concept of work done, Energy, Mechanical energy transformation and their units, Transformation of energy, Conservation of energy, and Power.
	Project : Reflection of light	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Magnetism	Induced magnetism and Neutral points, & Electromagnet and it's uses.
2.	Propagation of sound waves	Production & Propagation of sound wave and Infrasonic, sonic & ultrasonic frequencies.
3.	Current Electricity (X)	Concept of Charge, current, potential, potential difference & resistance; Ohm's law. and Electro-motive force, terminal voltage & internal
4.	Calorimetry (X)	Heat capacity, Specific heat capacity & it's measurement.
5.	Household Circuit (X)	Transmission of power and house wiring.
	Project: Propagation of sound wave.	

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PRACTICAL

1. Measure the length & diameter of a small cylinder by using vernier callipers.
2. Measure the mean radius of a given wire by using screw gauge.
3. Measurement of volume of a metal bob by water displacement method.
4. To calculate the time period & it's squares by using simple pendulum.
5. Verification of laws of reflection by using plane mirror & needles.
6. To obtain the focal length of a concave mirror by distant object method.
7. Determine the weight of a metal ball in air & in water by using spring balance to verify Archimedes' principle.
8. Calculate the equivalent resistance of parallel and series combination.

Chemistry

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	The Language of Chemistry	Symbol, valency, formulae, radicals, balancing, RAM, RMM, percentage composition, calculations
2.	Chemical Changes and Reactions	Chemical change, characteristics and types of reactions, energy change
3.	Atomic Structure and Chemical Bonding	Structure of atom, subatomic particles, mass number, atomic number, isotope, octet rule, atomic models, chemical activity of an atom
4.	Chemical Bonding (From Class X book)	Ionic, Covalent, Co- ordinate bond, orbital and Lewis structure, OILRIG concept
5.	Study of Gas Laws	Behaviour of gases under changes of temperature and pressure, explanation in terms of molecular motion, Boyle's law, Charles' law, absolute zero, gas equation, calculations, graphs, relationship between kelvin and Celsius scale, STP

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HALF YEARLY:

SL. NO.	CONTENT	CONCEPTS
1.	Periodic Table (From IX + X Both Books)	Reason for classification of elements, laws, periodic properties and their variations in group and periods, periodicity, general trends, study of specific groups, uses
2.	Study of the First element - Hydrogen	Position, discovery, preparation, properties, activity series, reactions, uses, oxidation and reduction
3.	Water	Properties, universal solvent, solution, solubility, concentration of a solution, Crystallisation, hydrated and anhydrous substances, properties, drying and dehydrating agent soft water and hard water
4.	Chemical Bonding (From IX + X Both Books) (Repeat)	Ionic, Covalent, Co- ordinate bond, orbital and Lewis structure, OILRIG concept
5.	Study of Gas Laws (Repeat)	Behaviour of gases under changes of temperature and pressure, explanation in terms of molecular motion, Boyle's law, Charles' law, absolute zero, gas equation, calculations, graphs, relationship between kelvin and Celsius scale, STP
	Project- Chemical Bonding	

FINAL:

SL. NO.	CONTENT	CONCEPTS
1.	Atmospheric Pollution	Air pollution, acid rain, global warming, ozone depletion
2.	Study of Compounds A. Hydrogen Chloride (From Class X)	Occurrence, preparation, physical properties, chemical properties, uses
3.	Analytical Chemistry (From class X)	Colour of salts, action of NaOH and NH ₄ OH, action of alkalis on certain metals and metal oxides
4.	Electrolysis (From class X)	Electrolytes and non-electrolytes, electrodes, electrochemical series, examples, applications
5.	Organic Chemistry (page 193 – 207 up to Isomerism) (From class X)	Organic compounds, hydrocarbons, nomenclature, isomerism, alcohol, carboxylic acids



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6.	Periodic Table (Repeat) (From Class X)	Reason for classification of elements, laws, periodic properties and their variations in group and periods, periodicity, general trends, study of specific groups, uses
7.	Chemical Bonding (Repeat) (From class X)	Ionic, Covalent, Co- ordinate bond, orbital and Lewis structure, OILRIG concept
	Project- HCl	

Practical -

- 1) Identification of gases by different methods
- 2) Action of heat on salts
- 3) Effect of dilute H₂SO₄ on salts
- 4) Identification of metal ions in the given unknown salt by flame test
- 5) Experiments to test for hardness of water
- 6) Experiment to detect water pollution

Environmental Science

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	UNDERSTANDING OUR ENVIRONMENT	- What in Environmental science - The root cause of Environmental problems. - Global perspective of Environmental problems - The concept of sustainable development.
2.	LIVING THINGS IN ECOSYSTEM	- Definition to be explained - What is an ecosystem? - Concept of interpretation of species
3.	HOW ECOSYSTEMS WORK	- Energy flow in an ecosystem. - The cycling of Materials - How Ecosystems Change.

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	KINDS OF ECOSYSTEM	- Key words- Definition - Explanation of Types of ecosystem. - Land ecosystem its types and



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		threats - Water ecosystem its types and threats - Relation of Biospheric zones of India.
2.	WATER	- Our water resources and its forms - Solution of water sortage - Water harvesting. - Water pollution and its effects. - Thermal pollution and its effects.
3.	AIR	- Air definition, pollution and causes. - Classification of pollutants. - Bhopal gas tragedy, its causes and effects. - Acid rain causes and effects.
4.	ATMOSPHERE AND CLIMATE	- Introduction to atmosphere and climate - Composition of atmosphere. - Climate, prevailing winds. - Green house, its effects. - Global warming, its causes and effects.
	Project: Kinds of Ecosystem	

FINAL:

SL. NO.	CONTENT	CONCEPTS
1.	SOIL AND LAND	- Introduction to Soil, and Land. - Factors affecting soil and land - Land pollution, causes of land pollution.
2.	PEOPLE	- Dimensions of poverty and multidimensional poverty. - Indicators to poverty. - Rural and Urban povety.
3.	URBANIZATION	- Urbanization definition - Manifestation of Urbanization - Problems of Urbanization.
4.	AGRICULTURE	- Agriculture definition and factors to increase them. - Environmental damage due to large farms. - Green Revolution, its benefits and failure. - Sustainable Agriculture.
	Project : Agriculture	

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Geography

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Geographical Grid-latitudes and longitudes	• Concept of latitude :Important latitudes, uses of latitudes • Concept of longitudes: Prime Meridian, International Dateline • Great circles and their use • Calculating time and distance from equator and Prime Meridian with the help of latitudes and longitudes
2.	Rotation and revolution	• Rotation: Direction, speed and effects • Revolution: Effects, the variation in the day and night and seasonal changes with Equinoxes and Solstices
3.	Earth's Structure	• Core, mantle, crust-meaning, extent and composition
4.	Landforms of the Earth	• Mountains, Plains, Plateaus-definition, types and formation • Examples from the World and India
HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Rocks	• Rocks-Difference between minerals and rocks. • Different types of rocks. • Formation and the characteristics of rocks • Concept of Rock cycle
2.	Volcanoes	• Meaning and types of volcanoes • Effects-constructive and destructive • Important volcanic zones of the world
3.	Earthquakes	• Meaning, causes and measurement of earthquake • Effects-constructive and destructive • Earthquake zones of the World
4.	Weathering	• Meaning, types and effects of weathering • Physical weathering, chemical weathering and biological weathering-causes and different forms



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5.	Denudation	• Meaning and the agent of denudation • Stages of a river course and associated landforms • Different features formed by the action of wind
6	Hydrosphere	• Meaning of hydrosphere • Formation and patterns of tide Ocean currents –circulation pattern, types of currents and effects
	PROJECT: Weathering	Meaning, Explanation causes and their different forms.

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Composition and structure of the atmosphere	• Layers of atmosphere • Their characteristics, extension and importance • Global warming and greenhouse effect- Causes, effects and mitigation
2.	Insolation	• Meaning of insolation and terrestrial radiation • Factors affecting temperature -latitude, altitude, distance from the sea ,slope of the land, winds and ocean currents
3.	Atmospheric pressure and wind.	• Major pressure belts of the world • Factors affecting direction and velocity of the wind • Periodic winds, seasonal wind and local winds-names, extensions and importance • Variable winds- cyclones and anticyclones
4.	Humidity	• Meaning and types of humidity • Condensation and precipitation – different forms
5.	Pollution (All the four chapters)	• Effects of different types of pollution –on environment, on plants, on animals and on human health • Carpools • Promotion of public transport • No smoking zone • Restriction on excessive use of fossil fuels • Encouragement of organic farming
6.	Soil (X)	• Types of soils • Soil erosion-causes, prevention and conservation

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7.	Natural Vegetation (X)	• Importance of forests • Types of vegetation • Forest conservation
	PROJECT: Natural Regions of the World	To show Location, area, climate, natural vegetation and human adaptation.

History

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Harappan Civilization	Knowing about the earliest civilization of India
2.	The Vedic age	Learning about the arrival of Aryans in the Indian subcontinent
3.	Jainism and Buddhism	The different paths to enlightenment
4.	The Revolt of 1857	Knowing about the first great uprising of the Indians against the British
5.	Our Constitution and its Salient features	Learning about the constitution of India

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Our Constitution and its Salient features	Learning about the constitution of India
2.	The Mauryan Empire	Rise of Chandragupta Maurya and the First Indian Empire
3.	The Gupta Empire	The Rise and fall of India's Golden Age
4.	South India and the Cholas	Learning about the Grand kingdoms of South India
5.	Factors Promoting nationalism and the Foundation of the INC	Rise of Indian nationalism and political organizations
6.	Objectives and methods of struggle of the Early nationalists	Learning about the Moderate Nationalists
7.	Election	Learning about the Election
	Project- The Vedic Civilization	



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FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	The Delhi Sultanate	The Establishment of the Turkish kingdoms in India
2.	Renaissance	Rebirth European civilization
3.	Reformation	Learning about the religious changes that occurred in Europe
4.	Industrial Revolution	Rise machine industries and new socio-economic ideologies
5.	Second phase of Indian national movement	Rise of the Radical nationalists
6.	Muslim League and the Lucknow pact	Learning about the Objectives of the Muslim League
7.	Executive	Learning about the powers of the President
8.	The Union Parliament	Knowing about Law making
9.	Project- The Sultans of Delhi	

2nd Language - Bengali

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	লালু- (গল্প)	এক দুষ্ট ছেলের দুষ্টমির গল্প।
2.	সভ্যতার প্রতি (কবিতা)	নগরকে নিয়ে প্রকৃতিকে ফিরিয়ে দেওয়ার করুন আবেদন নিয়ে লেখা কবিতা।
3.	উপসর্গ ও অনুসর্গ -(ব্যাকরণ)	কোনটি কোথায় বসে,কি কাজ এইসব শেখায়।
4.	সমার্থক শব্দ -(ব্যাকরণ)	একই শব্দের অনেকগুলো মানে শেখা।
5.	বাক্য পরিবর্তন -(ব্যাকরণ)	বাক্য পরিবর্তন করার নিয়ম ও তার শ্রেণীবিভাগ এবং বিভিন্ন ক্ষেত্রে প্রয়োগ।

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	ক্যানভাসার -(গল্প)	হীরালাল ও ভৈরবের মাজন বিক্রির মজার ঘটনা।
2.	গিনি (গল্প)	স্কুলের এক শান্ত ছেলের সাথে ঘটে যাওয়া ঘটনাগুলো ও তার স্বভাব নিয়ে লেখা গল্প।
3.	রবীন্দ্রনাথের প্রতি -- (কবিতা)	দুর্দিনে রবীন্দ্রনাথ কে স্মরণ করে লেখা কবিতা।
4.	সিঁড়ি (কবিতা)	অবহেলিত বাড়ির সিঁড়ি নিয়ে লেখা কবিতা।
5.	এক কথায় প্রকাশ - (ব্যাকরণ)	একটি কথায় শব্দের প্রকাশ বা সংকোচন



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6.	সমোচ্চারিত ভিন্নার্থক শব্দ - (ব্যাকরণ)	একই শব্দের ভিন্ন অর্থ সম্পর্কে শেখা।
7.	সাধু ও চলিত (ব্যাকরণ)	সাধু ভাষা ও চলিত ভাষা পরিবর্তন করার নিয়ম ও উদাহরণ।
8.	বিরামচিহ্ন - (ব্যাকরণ)	ছেদ যতি চিহ্নের সঠিক ব্যবহার।
9.	ধ্বন্যাৎমক শব্দ - (ব্যাকরণ)	বাস্তব ধ্বনির অনুকরণে তৈরী ধ্বনি ও প্রয়োগ
10.	পত্র লিখন - (ব্যাকরণ)	পত্র রচনার নিয়মাবলী শিখিয়ে পত্ররচনার দক্ষতাকে যাচাই করা।
11.	উক্তি পরিবর্তন (ব্যাকরণ)-	প্রত্যক্ষ ও পরোক্ষ ভাবে উক্তি পতিবর্তন করার নিয়ম
12.	বোধ পরীক্ষণ - (ব্যাকরণ)	কোনো পরিচ্ছেদ পরে তার সম্পর্কে প্রশ্ন উত্তর লিখতে সমর্থ হতে পারা।
13.	অনুচ্ছেদ লিখন (ব্যাকরণ)	শিক্ষার্থীর লিখন দক্ষতা যাচাই করা এবং বিভিন্ন বিষয় সম্পর্কে ধারণা হওয়া
14.	ক্যানভাসার - (গল্প)	হীরালাল ও ভৈরবের মাজন বিক্রির মজার ঘটনা।
15.	গিনি (গল্প)	স্কুলের এক শান্ত ছেলের সাথে ঘটে যাওয়া ঘটনাগুলো ও তার স্বভাব নিয়ে লেখা গল্প।
16.	প্রকল্প:- ক্যানভাসার - (গল্প)	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	দেবতার জন্ম -	এক বিজ্ঞান মানসিকতায় বিশ্বাসী মানুষের কুসংস্কারী হয়ে ওঠার গল্প।
2.	নীল মানুষের কাহিনী -	রণজয়ের নীল মানুষ হয়ে যাওয়ার পর কি হয়েছিল সেই নিয়ে লেখা গল্প।
3.	বাবু বলেন (কবিতা)	এক আরাম আয়েশ করা বাবুর ব্যর্থ জীবন যাপন করা নিয়ে লেখা কবিতা।
4.	ফুল ফুটুক না ফুটুক -- (কবিতা)	বসন্তের আগমন, প্রাকৃতিক সৌন্দর্য নিয়ে লেখা কবিতা।
5.	বাচ্য পরিবর্তন -	কর্তা, কর্ম, এবং ক্রিয়ার ভাবে পরিবর্তন করা ও বাক্যে প্রয়োগ করা শেখায়।
6.	অশুদ্ধি শোধন -	বাক্যের মধ্যে থাকা ভুল বানান
7.	শব্দের বিশিষ্ট প্রয়োগ	একে শব্দকে কত গুলো অর্থে ব্যবহার করতে পারি সেই বিষয়ে শিখবো।
8.	বাগধারা ও প্রবাদ -	প্রাচীনকাল থেকে চলে আসা কিছু প্রবাদ ও বাগধারা ।
9.	বিপরীত শব্দ -	একটি শব্দের উল্টো মানে কি সেই সম্বন্ধে জানা
10.	বোধ পরীক্ষণ -	কোনো পরিচ্ছেদ পরে তার সম্পর্কে প্রশ্ন উত্তর লিখতে সমর্থ হতে পারা।
11.	পত্র লিখন -	পত্র রচনার নিয়মাবলী শিখিয়ে পত্ররচনার দক্ষতাকে যাচাই করা।



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12.	অনুচ্ছেদ	শিক্ষার্থীর লিখন দক্ষতা যাচাই করা এবং বিভিন্ন বিষয় সম্পর্কে ধারণা হওয়া
13.	চিত্র লিখন -	শিক্ষার্থীর ভাবশক্তির দক্ষতা যাচাই করা যায়
14.	প্রকল্প:- নীল মানুষের কাহিনী	

2nd Language - Hindi

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	बात अठन्नी की। (कहानी)	ऊँची वर्ग के अपराध को अनदेखा कर देना।
2.	साखी। (कविता)	व्यवहारिक ज्ञान।
	व्याकरण:-	
3	अपठति गद्यांश	गद्यांश को पढ़कर उसके प्रश्नों का उत्तर देना।
4	पत्र-औपचारिक तथा अनौपचारिक	औपचारिक तथा अनौपचारिक पत्र लिखने का ढंग।
5	मुहावरे	वाक्यांश का अर्थ तथा उसका प्रयोग।
6	अशुद्ध शोधन	अशुद्धियों को सुधार कर पुनः लिखना।
7	अनेक शब्दों के लिए एक शब्द	वाक्यांश के लिए एक शब्द।

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	महायज्ञ का पुरस्कार	मानवता की सीख।
2.	काकी	बाल मनोवैज्ञान का ज्ञान।
3.	सा खी	व्यवहारिक ज्ञान
4.	गरिधर की कुंडलिया	व्यावहारिक ज्ञान
5.	स्वर्ग बना सकते हैं	समानता तथा सामाजिक विषमता के लिए जागरूक करना।
6.	व्याकरण:- वाक्य परिवर्तन 2. विपरीत शब्द 3. अपठति गद्यांश 4. पत्र-औपचारिक, अनौपचारिक 5. निर्देश अनुसार वाक्य परिवर्तन 6. भाव वाचक संज्ञा 7. मुहावरे 9. नबिंध	
16.	परियोजना :- 1. बढ़ती जनसंख्या और भारत 2. काकी कहानी का सारांश तथा सार्थकता	



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FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	नेताजी का चश्मा	देश प्रेम का सच्चा अर्थ।
2.	अपना अपना भाग्य	जीवन कर्म के साथ-साथ भाग्य पर भी निर्भर करता है।
3.	मेघ आए	बरसात के आने पर प्रकृति में परिवर्तन तथा द्वैत अर्थ का ज्ञान।
4.	यह जन्मभूमि मेरी	जन्मभूमि के प्रति प्रिय और गर्व की भावना।
5.		
6.	व्याकरण -वशिषण	वशिषण शब्दों में परिवर्तन
7.	मुहावरे	वाक्यांश का अर्थ तथा उसका प्रयोग
8.	वाक्य परिवर्तन	निर्देशानुसार वाक्य के भेदों में परिवर्तन परिवर्तन
9.	अपठति गद्यांश	अपठति गद्य खंड को पढ़कर प्रश्नों का उत्तर देना।
10	पत्र लेखन	औपचारिक तथा अनौपचारिक
16.	परियोजना -1. भ्रष्टाचार के कारण तथा उसे दूर करने का उपाय। 2. काकी कहानी का सारांश तथा शीर्षक की सार्थकता।	

ECONOMIC APPLICATION

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Meaning and definition of Economics	Introduction



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2.	Basic concepts of Economics	Human wants, goods, services, consumption, utility, production, inputs, price, market, money, income, national and per capita income, saving, investment, wealth
3.	Economy and economic entities	Economic entities, economy, simple and complex economies.

HALF YEARLY:

SL. NO.	CONTENT	CONCEPTS
1.	Economy and economic entities	Economic entities, economy, simple and complex economies.
2.	Basic problems of an economy	Basic problems, economic growth and development.
3.	The nature and classification of an economy	Developed and developing (underdeveloped) economies, capitalistic and socialistic economies.
4.	Solutions to the basic economic problems in different economies.	Solutions to basic problems in capitalist, socialist and mixed economy.
5.	The nature of Indian economy.	Indian economy : developing and mixed economy
6.	The sectors of Indian economy	a) Agricultural, industrial and service sector in India. b) Public and private sectors c) Rural and urban sectors.

Project: Take a developed country such as the USA and a developing country such as India. Analyse the main characteristics of these economies.

FINAL:

SL. NO.	CONTENT	CONCEPTS
1.	The sectors of Indian economy	a) Agricultural, industrial and service sector in India. b) Public and private sectors c) Rural and urban sectors.
2.	Impact of agricultural and industrial practices on the ecosystem.	Concept, impact of agricultural and industrial practices on the ecosystem.
3.	Infrastructure of	Economic and social infrastructure, transport,



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	the Indian economy	communication, energy (power), irrigation.
4.	Social infrastructure of the Indian economy	Introduction, education, health and family welfare, housing.
5.	Consumer Awareness	Consumer awareness and exploitation, food adulteration.
6.	Globalisation	Globalisation, WTO.

Project: Take a table of food grain production in India from any textbook on Indian economy or any other secondary source such as internet. Interpret the changes in the production over a given period of time.

PHYSICAL EDUCATION

IAT1:		
SL. NO.	CONTENT	CONCEPTS
1.	Skeletal System	• Functions of the skeletal system • Classification of different types of joints • Types of joint movements and physical activities • Benefits of exercise on the skeletal system
2.	Muscular System	• Types of muscles • Identification of muscles • Benefits of exercise on the Muscular System
3.	Respiratory System :	• Pathway of air into the body • Mechanics of breathing • Oxygen Debt and Lactic Acid accumulation meaning only • Second Wind • Vital Capacity and Tidal Volume. Benefits of exercise on the Respiratory System.

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Respiratory System	• Pathway of air into the body • Mechanics of breathing • Oxygen Debt and Lactic Acid accumulation meaning only • Second Wind



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		- Vital Capacity and Tidal Volume - Benefits of exercise on the Respiratory System
2.	Circulatory System	- Structure of heart - Heart rate, Stroke Volume, Cardiac output (meaning and difference) - Mechanism of Blood Circulation - BLOOD: [a] Composition of blood [b] Blood group - Benefits of exercise on the Circulatory System
3.	Games and Sports	- History of Games and Sports. - Meaning of Games and Sports. - Difference between Games and Sports. - Components and Criteria of Games and Sports. - Meaning of Sport Sociology and Sport Psychology. - Psychological and Social Benefits of Games and Sports.
4.	Any two of the following are to be studied: [Cricket, Football, Hockey, Basketball, Volleyball, Badminton] ❖ Project: [1] Field Diagrams with Measurement. [2] Knowledge of the game. [3] Rules of the games Fundamental Skills and Techniques.	Rules of the games Fundamental Skills and Techniques
	❖ Project: [1] Field Diagrams with Measurement. [2] Knowledge of the game. [3] Rules of the games Fundamental Skills and Techniques.	
FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Skeletal Systems	- Functions of the skeletal system - Classification of different types of joints - Types of joint movements and physical activities - Benefits of exercise on the skeletal system



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2.	Muscular System	• Types of muscles • Identification of muscles • Benefits of exercise on the Muscular System
3.	Respiratory System	• Pathway of air into the body • Mechanics of breathing • Oxygen Debt and Lactic Acid accumulation meaning only • Second Wind • Vital Capacity and Tidal Volume • Benefits of exercise on the Respiratory System
4.	Circulatory System	• Structure of heart • Heart Rate, Stroke Volume, Cardiac Output [meaning and difference] • Mechanism of Blood Circulation • BLOOD: [a] Composition of blood [b] Blood group • Benefits of exercise on the Circulatory System
5.	Games and Sports	○ History of Games and Sports. • Meaning of Games and Sports. • Difference between Games and Sports. • Components and Criteria of Games and Sports. • Meaning of Sport Sociology and Sport Psychology. • Psychological and Social Benefits of Games and Sports.
6.	Any two of the following are to be studied: (Cricket, Football, Hockey, Basketball, Volleyball, Badminton) ❖ Project: [1] Field Diagrams with Measurement. [2] Knowledge of the game.	• Rules of the games Fundamental Skills and Techniques
	Project: Heart /Respiratory System diagram with labels and detailed explanations.	
	Practical : Rules of the games Fundamental Skills.	

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Environmental Science

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	UNDERSTANDING OUR ENVIRONMENT	• What in Environmental science • The root cause of Environmental problems. • Global perspective of Environmental problems • The concept of sustainable development.
2.	LIVING THINGS IN ECOSYSTEM	• Definition to be explained • What is an ecosystem? • Concept of interpretation of species
3.	HOW ECOSYSTEMS WORK	• Energy flow in an ecosystem. • The cycling of Materials • How Ecosystems Change.

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	KINDS OF ECOSYSTEM	• Key words- Definition • Explanation of Types of ecosystem. • Land ecosystem its types and threats • Water ecosystem its types and threats • Relation of Biospheric zones of India.
2.	WATER	• Our water resources and its forms • Solution of water shortage • Water harvesting. • Water pollution and its effects. • Thermal pollution and its effects.
3.	AIR	• Air definition, pollution and causes. • Classification of pollutants. • Bhopal gas tragedy, its causes and effects. • Acid rain causes and effects.

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4.	ATMOSPHERE AND CLIMATE	• Introduction to atmosphere and climate • Composition of atmosphere. • Climate, prevailing winds. • Green house, its effects. • Global warming, its causes and effects.
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Project:

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	SOIL AND LAND	• Introduction to Soil, and Land. • Factors affecting soil and land • Land pollution, causes of land pollution.
2.	PEOPLE	• Dimensions of poverty and multidimensional poverty. • Indicators to poverty. • Rural and Urban poverty.
3.	URBANIZATION	• Urbanization definition • Manifestation of Urbanization • Problems of Urbanization.
4.	AGRICULTURE	• Agriculture definition and factors to increase them. • Environmental damage due to large farms. • Green Revolution, its benefits and failure. • Sustainable Agriculture.

Project:

Commercial Studies

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Commercial and non-commercial activities	Human activities, commercial and non commercial activities.
2.	Business activities	Concept of business activities, Commerce, trade, aids to trade.
3.	Profit and non profit organisations	Meaning and types of profit and non-profit organisations
4.	Classification of commercial organisations	Definition and classification of commercial organisations.

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HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Classification of commercial organisations	Definition and classification of commercial organisations.
2.	Sole proprietorship	Meaning, features, merits and demerits of sole proprietorship
3.	Partnership	Partnership- meaning, features, merits, demerits and types ; partnership deed, Registration of Partnership.
4.	Joint Stock company	Concept of joint stock company, One person company (OPC)
5	Cooperative society	Cooperative society – concept, management, formation
6	Public sector enterprises	Concept, Departmental Undertakings, Statutory/ Public Corporations, Government Companies.
7	Marketing and sales	Concept and objectives, distinction between marketing and sales.
8	Finance and Accounts	Meaning of finance, functions and objectives of finance and Accounts department.
9	Human Resources	Meaning, functions and objectives of HRM.

Project: To survey the origin and growth of a sole proprietorship in the city.

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Production	Definition, functions and objectives of production department.
2.	Communication in commercial organisations	Concept, role of communication in commercial organisations, Communication process.
3.	Different methods of communication	Letters, Memos, Telephone conversation, face to face communication, E-mail, Video Conferencing, Non verbal communication, social media.
4.	<u>Meaning, objectives and terminology of Accounting</u>	Accounting, Book keeping, Accounting cycle, Rules of debit and credit, basic accounting terminologies.
5.	Basic Accounting principles and concepts	Meaning and need of accounting principles, basic accounting principles.
6.	Accounting books and statements	Journal, ledger, Trial Balance.
7.	Banking	Meaning and types of banks, functions of commercial bank, types of bank accounts.
8.	Trade	E- commerce and E- trade, online trading.
9.	Social responsibility of commercial	Social responsibility, E- waste management,



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	organisations towards the environment.	Recycling, afforestation, Eco friendly products, Legal compliance of environmental norms.
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Project: As the Head of the Human Resources Department, prepare a memo to be given to an employee regarding his unauthorised absence from duty for two days.

Drawing

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
1.	Busy life	
2.	Hill side	
3.	Foggy morning	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Tea Garden	
2.	Marine life	
3.	Creative Drawing	

SUPW

HALF YEARLY:		
SL. NO.	CONTENT	CONCEPTS
	1.Bottle art 2.Lippon art 3.Planter Making	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
	1.Any Recycling 2.Wall Hanging 3.Grain Art	



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Music

HALF YEARLY:

SL. NO.	CONTENT	CONCEPTS
1.	He is my everything	
2.	Ami ondhokarer jatri	
3.	Saraswati Vandana	

FINAL:

SL. NO.	CONTENT	CONCEPTS
1.	This is the day	
2.	Mangaldeep jele	
3.	Tumhi ho mata tumhi pita ho	