

St. Stephen's School Birati

Syllabus 2023-24

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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.

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- To understand the basic structural patterns of the language, vocabulary and constructions.

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

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

UNIT:

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	Values and Types(<i>chp-4</i>)	Character set in java,Datatypes in java,Type Conversion
5	Conditional Construct in java(<i>chp-8</i>)	If-else, Switch case

TERMINAL:

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	Values and Types(<i>chp-4</i>)	Character set in java,Datatypes in java,Type Conversion
5	Conditional Construct in java(<i>chp-8</i>)	If-else, Switch case
6	Operators in java(<i>chp-5</i>)	Types and hierarchy in java,Special operators and Associativity of operators
7	Input in java(<i>chp-6</i>)	Different types of input in java,Errors in java,Packages and Comments in java
8	Iterative Constructs in Java(<i>chp-9</i>)	Different parts of loop,Categories of loop

PROJECT: Programs on JAVA

FINAL:

Sl No	Content	Concept
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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	Values and Types(<i>chp-4</i>)	Character set in java,Datatypes in java,Type Conversion
5	Conditional Construct in java(<i>chp-8</i>)	Conditional Construct in java(<i>chp-8</i>)
6	Input in java(<i>chp-6</i>)	Different types of input in java,Errors in java,Packages and Comments in java
7	Mathematical Library Methods(<i>ch-7</i>)	Methods of Math Class
8	Iterative Constructs in java(<i>chp-9</i>)	Different parts of loop,Categories of loop
9	Nested Loops(<i>chp-10</i>)	Pattern Programs,Break and Continue
10	User Defined Methods(From class x book)	Ways to invoke method,Function-overloading,Pure and Impure methods

PROJECT: Programs on JAVA

Practical Programs:

1. Write a menu driven program to input the radius (r), height (h) and calculate the following:

- a) Volume of sphere (V_s) $= \frac{4}{3} \pi r^3$
- b) Volume of cylinder(V_c) $= \pi r^2 h$
- c) Volume of cone (V_{co}) $= \pi r^2 h / 3$

2.Using switch case write a program to display the results of the following evaluations based on the user's choice.

- a) Square root of 9
- b) Absolute value of 126.4
- c) Print the smallest integer value greater than 56.7
- d) Print any value between 0 and 1.

3. The shop has announced the following scheme for its sales personnel according to the following criteria.

Number of Sales	Commission	Gift
Up to 50 products	5% on selling amount	A parker pen
51 to 75 products	7.5% on selling amount	A micro SD Card
76 to 100 products	10% on selling amount	A mobile

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More than 100 products	15% on selling amount	A laptop
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Write a program to input the sales and compute the commission and print the commission and the gift according to the given criteria

4. Write a program to input a number and check whether the number is Disarium number or not.

A number is called DISARIUM if sum of its digits powered with their respective positions is equal to the original number.

Some DISARIUM Nos are 89, 135, 175, 518

Eg: 135 is a DISARIUM number

Working: $1 + 9 + 125 = 135$

5. Write a program to input a number and print the number is a Palindrome number or not.

6. Write a program to input a number and print the number is a Niven number or not.

7. Write a program to input a number and print the number is a Krishnamurthy number or not.

8. Write a menu driven to input n and print the sum of the following series:

i) $S = x + X^2/2! + X^3/3! + \dots n \text{ terms}$

ii) $1/1^3 - 1/2^3 + 1/3^3 - \dots 1/n^3$

9. Write a program to input a number and print the number is duck number or not.

10. Write a program to print the sum of the following series:

$S = 1/2! + 2/4! + 3/6! + \dots + 10/20!$

11. Write a program to print the following:

$S = (1) + (1+3) + (1+3+5) + \dots (1+3+5+\dots n^{\text{th}} \text{ term})$

12. Pattern Programs:

i) 1
2 3
4 5 6
7 8 9 10

ii) 1 1 1 1
2 2 2
3 3
4

iii) * * * *
* * *
* *
*

iv) 1 1 1 1
1 1 1 1
1 1 1 1
1 1 1 1

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v) 1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

vi) 10 9 8 7
6 5 4
3 2
1

vii) A
B C
D E F
G H I J

viii) A
B B
C C
D D D D

ix) 1
2 1
3 2 1
4 3 2 1
5 4 3 2 1

x) 1
1 0
1 0 1
1 0 1 0 1
1 0 1 0 1 0

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ENGLISH LANGUAGE

UNIT EXAM:

SL NO.	CHAPTERS	CONTENTS
1.	Letter Writing	
2.	Grammar Skills (Do as Directed; Prepositions)	
3.	Notice Writing	
4.	Email Writing	
5.	Grammar Skills (Connectors, tenses, prepositions)	

TERMINAL EXAM:

SL NO.	CHAPTERS	CONTENTS
1.	Essay Writing	
2.	Letter Writing	
3.	Notice and Email Writing	
4.	Comprehension	
5.	Grammar Skills	
	Tenses	
	Appropriate Words	
	Connectors	
	Do as Directed	
	Project- Role Model	

FINAL EXAM:

SL NO.	CHAPTERS	CONTENTS
1.	Essay Writing	
2.	Letter Writing	
3.	Notice and Email Writing	
4.	Comprehension	
5.	Grammar Skills	
	Tenses	
	Appropriate Words	
	Connectors	

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	Do as Directed	
	Project-	

ENGLISH LITERATURE

UNIT:

SL NO.	CHAPTERS	CONCEPTS
1.	JULIUS CAESAR (Act I scene i and II)	
2.	Bonku Babu's Friend	
3.	The Night Mail	
4.	Oliver Asks More	
5.	The Homecoming	
6.	Remember I Remember	
7.	Act II SCENE I II AND III (Julius Caesar)	

TERMINAL:

SL NO.	CHAPTERS	CONCEPTS
1.	Act II SCENE IV, act II Scene I , II AND III (Julius Caesar)	
2.	A Work of Artifice	
3.	Skimbleshanks	
4.	A Doctor's Journal Entry for August 6, 1945	
5.	The Model Millionaire	
6.	The Boy who Broke the bank	
7.	A String of Bead	
	Project- Home coming	

FINAL:

SL NO.	CHAPTERS	CONCEPTS
1.	Act IV Scene I, II AND III, ACT V Scene I AND II (Julius Caesar)	
2.	The Gift of the Magic	
3.	The Last Lesson	

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4.	The Elevator	
5.	The Brook	
6.	The Village School Master	
7.	The Power of Music	

Biology

UNIT1:

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)

TERMINAL:

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.	Nutrition(IX)	Classification of food, balanced diet, malnutrition and deficiency diseases. Function and sources of different nutrients etc.
4.	The Respiratory system(IX)	Respiratory system, organs, mechanism of breathing, tissue respiration, heat production.
5.	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
6.	Human Evolution(X)	Theories of evolution; human evolution, Lamarck's theory of inheritance, Darwin's theory of evolution by natural selection
	Project- SKELETAL SYSTEM	

FINAL:

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SL. NO.	CONTENT	CONCEPTS
1.	Respiration in Plants(IX)	Outline of the process, gaseous exchange, Glycolysis & Krebs cycle, aerobic & anaerobic respiration
2.	Economic Importance of Bacteria and Fungi (IX)	Useful and harmful role of bacteria & fungi
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- RESPIRATION IN PLANTS	

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

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	Compound Interest	Calculating Compound interest using formula, Problem sums on Compound interest.
2.	Quadratic Equation	Solving Quadratic equation of one variable by factorizing the given expression.
3.	Mensuration(16.1 & 16.2)	Obtaining perimeter and area of triangle and quadrilateral and different polygonal shapes.
4.	Pythagoras theorem	Learning the theorem and solving problems related to Pythagoras theorem.
5.	Banking(Class X)	Learning the Formula to calculate the Interest in a recurring deposit account on maturity
6.	Section Formula(Class X)	Formula to obtain the co-ordinates of a point that intersect a line segment joining two points in a certain ratio internally or externally.

TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Rational & Irrational numbers	Concept of rational, irrational and real numbers and positions of them in number system.
2.	Simultaneous linear equations and word problems.	Solving a set of two linear equations each made of two variables
3.	Rectilinear figures	Proofs using properties of parallelogram and area theorem of parallelogram.
4.	Triangles	Proves of congruency using different conditions of triangles.
5.	Trigonometric Ratios	Introduction to trigonometric ratios, relation between them.
6.	Trigonometric Identities(Class X)	Identities of trigonometric ratios, converting from one ratio to another using identities, values of some special angles and complementary angles
7.	Reflection(Class X)	Finding the co-ordinates of a given point, reflected on axes or line parallel to axes.
	Project: Trigonometrical ratios	

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FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Expansion and factorization	Expanding and factorizing of expressions using formula and identities.
2.	Indices	Solving problems using the laws of indices.
3.	Mid point theorem	Learning the Mid point theorem and it's converse part and solving problems regarding this theorem.
4.	Theorems on area	Learning the theorem, relation between areas of triangle and parallelogram under same base and same parallel lines.
5.	Circles(Class IX + X)	Learning properties of circle and solving problems related to circles.
6.	Mensuration	Finding areas, perimeters of different polygons and 3D solids(Cube & cuboid).
7.	Measures of central tendency(Class X)	Calculating mean of given data using different methods; Calculating median and mode.
8.	GST(Class X)	Calculating GST for any kind of transactions.
	Project: Circle.	

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Physics

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	Motion in one Dimension(IX)	Scalar vector quantities ,distance , speed ,velocity , acceleration , and various graphs and equations.
2.	Laws of motion(IX)	Newton's three laws of motions and their various phenomenon.
3.	Current Electricity(IX)	Simple electric circuit its types , potential difference, concept insulators and conductors.
4.	Radioactivity(X)	Radioactivity and changes in the nucleus , nuclear fission and fusion.

TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Pressure in fluids and atmospheric pressure (IX)	Changes of pressure with depth , transmission of pressure in liquids.
2.	Reflection of light(IX)	Reflection of light , images formed by spherical mirrors.
3.	Magnetism(IX)	Induced magnetism, Magnetic field of Earth.
4.	Propagation of sound waves(IX)	Nature of sound waves, Propagation and speed in different media.
5.	Work, energy and power(X)	Work,energy,power and their relation with force.
	Project- Reflection of light	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Heat and Energy(IX)	Concepts of heat and temperature, anomalous expansion of water, Energy sources.
2.	Electric current(X)	Ohm's law , Concepts of e.m.f, resistance, electrical power and energy.
3.	Propagation of sound(X)	Reflection of sound waves , echoes and their uses.
4.	House hold circuit(X)	Main circuit, switches, fuse, earthing, safety precautions
5.	Calorimetry(X)	Calorimetry meaning, specific heat capacity, latent heat.

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	Project : Heat and Energy	
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PRACTICAL

1. Determine the least count of the vernier caliper and measure the length of an object.
2. Determine the least count, pitch of the given screw gauge and measure the radius of a given wire.
3. Measure the length, breadth, and thickness of a glass block and calculate the volume of the block.
4. Measure the volume of a metal using measuring cylinder and water displacement method.
5. Calculate the time period by pendulum.
6. Relation between $^{\circ}\text{C}$ and $^{\circ}\text{F}$ (Temperature of hot water).
7. Laws of reflection using plane mirror.
8. Magnetic lines of force.

Chemistry

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	The language of chemistry (IX)	Chemical formula of ionic compounds, calculating valencies, balancing chemical equations using law of conservation of mass.
2.	Study of Gas laws (IX)	Characteristics and properties of gases, molecular motion, relation between pressure and volume, absolute kelvin temperature, the gas equation.
3.	Chemical changes and Reactions (IX)	Types of chemical changes and reactions, their characteristics.
4.	Study of Acids, Bases and Salts (X)	Properties of acids, bases and salts, their classifications, knowing some special type of reactions, special type of substances.

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TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Water (IX)	Physical properties, solutions, solubility, crystallisation, properties of different substances(dehydrating, drying, hydrated, anhydrous), types of hardness.
2.	Atomic structure and chemical bonding (IX)	Different models of atoms, particles of an atom, atomic number, mass number, electronic configurations, valance electrons, isotopes, different bonds
3.	Study of first element, Hydrogen (IX)	Position in periodic table, Similarities with alkalis and halogens, occurrence, preparation, properties, uses, oxidation and reduction.
4.	The periodic table (IX)	Classifications of elements, different laws of periodic table, modern periodic table, types of elements, merits and demerits of modern periodic table, study of specific groups, uses.
5.	Metallurgy (X)	Classification of elements, position of metals, Different methods of extracting metals from ores, extraction of metals based on their position in activity series.
	Project- Water	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Study of Gas laws (IX)	Characteristics and properties of gases, molecular motion, relation between pressure and volume, absolute kelvin temperature, the gas equation.
2.	Atmospheric pollution (IX)	Different pollutions, acid rain, Global warming, Affect on Ozone layer.
3.	Study of compound HCL (X)	Preparation of HCl, Different tests for hydrogen chloride and hydrochloric acid, to show that HCl is heavier than air.

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4.	Analytical chemistry (X)	Colour of salt solutions and responsible ions, reaction of different salts with sodium hydroxide and ammonium hydroxide
5.	Electrolysis (X)	Electrolytes and non-electrolytes, electrolysis of certain electrolytes and constituents formed in cathode and anode .
	Project- Hydrogen and its compound (HCL) Hydrogen	

Geography

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	Earth as a planet	Shape of the Earth , Earth as a home of mankind and the conditions that exist.
2.	Rotation & Revolution	Rotation and Revolution of the Earth, speed, direction, duration, effects. The concept of Equinoxes and Solstices.
3.	Earth's structure	Different layers of lithosphere, their composition, extent. Concept of discontinuities.
4.	Volcanoes	Meaning, types, effects of volcanoes. Important volcanic zones of the world.
5.	Earthquakes	Meaning, causes and measurement. Effects: Destructive and constructive. Different earthquake zones of the world.
6.	Composition and structure of the atmosphere	Different layers of the atmosphere, their composition, speciality. Concept of Pause. Depletion of Ozone layer, Global Warming and its impact.
	Map Pointing :- On the River map of the world mark the different rivers of the world.	

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TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Geographic Grid- Latitude & Longitude	Concept of latitude & longitude. Using latitude & longitude to find location. Time calculation. Great Circle and its uses.
2.	Landforms of the Earth	Different landforms of the Earth and their classification with examples.
3.	Rocks	Meaning of rocks. Types of rocks with their characteristics and formation. Rock Cycle.
4.	Weathering	Meaning, types and effects of weathering.
5.	Insolation	Meaning of insolation. Factors affecting temperature.
6.	Pollution	Meaning and types of pollution.
7.	Sources of Pollution	Sources of different types of pollution like air, soil, water , noise and radioactive.
	Map Pointing:- On the world map mark different types of mountains, plateau and full syllabus of unit examination. PROJECT WORK:- Different Landforms Of The Earth	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Denudation	Meaning and agents.
2.	Hydrosphere	Meaning of hydrosphere. Formation of tides. Ocean currents- circulation and their pattern.
3.	Atmospheric pressure & winds	Meaning & factors that affect atmospheric pressure. Major pressure belts. Different types of wind , direction and velocity.
4.	Humidity	Meaning, different types of condensation, precipitation and rainfall.

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5.	Effects of pollution	Effects of pollution on environment and human health.
6.	Preventive measures of pollution	Different preventive measurement to check pollution.
7.	Natural regions of the world	Location, area, climate, natural vegetation and human adaptation.
	Map pointing:- Full syllabus. Project work:- Different agents of Denudation	

History

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	Harappan Civilization	
2.	Early Vedic Age	
3.	Later Vedic Age	
4.	Our Constitution (Its Salient Features)	

TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Jainism and Buddhism	
2.	The Mauryan Empire	
3.	Age of the Gupta's	
4.	South India and Cholas	
5.	Fundamental Right, Fundamental Duties	

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6.	Elections and the Election Commission	
	Project- Indian History	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	The Delhi Sultanate	
2.	The Mughal Empire	
3.	The Renaissance	
4.	The Reformation	
5.	Industrial Revolution / Capitalism and Socialism	
6.	Local Self Government - Rural and Urban	

2nd Language - Bengali

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	লালু- (গল্প)	এক দুষ্ট ছেলের দুষ্টমির গল্প।
2.	গিনি (গল্প)	-স্কুলের এক শান্ত ছেলের সাথে ঘটে যাওয়া ঘটনাগুলো ও তার স্বভাব নিয়ে লেখা গল্প।
3.	বঙ্গভূমির প্রতি - (কবিতা)	বঙ্গমাতার প্রতি কবির ভালোবাসা, শ্রদ্ধা নিয়ে লেখা কবিতা।
4.	সভ্যতার প্রতি (কবিতা)	কোনটি কোথায় বসে, কি কাজ এইসব শেখায়।
5.	সন্ধি --(ব্যাকরণ)	সন্ধি কাকে বলে শ্রেণীবিভাগ ও সন্ধির নিয়ম।

TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	ছিনাথ বহুরূপী --(গল্প)	শ্রীকান্তদের বাড়িতে হঠাৎ উত্তেজনা ও বাঘরূপী বহুরূপী দেওয়া শাস্তি নিয়ে লেখা এই গল্প।
2.	কাবুলের পথে-(গল্প)	লেখকের কাবুল যাওয়ার পথের বর্ণনা দেওয়া নিয়ে লেখা গল্প।

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3.	আর্কিমিডিসের আবিষ্কার --(গল্প)	একজন বিখ্যাত পদার্থবিদ আর্কিমিডিসের নতুন নতুন আবিষ্কার যা বর্তমানেও ব্যবহার করা হয় তা নিয়ে লেখা গল্প।
4.	রবীন্দ্রনাথ কত পেতেন-(গল্প)	বাংলা নির্মিতি নিয়ে শিক্ষার্থীদের থাকা ভুল ধারণা ভাঙা নিয়ে লেখা গল্প।
5.	সাম্যবাদী -(কবিতা)	জাতি,ধর্ম,বর্ণ নির্বিশেষে ভেদাভেদ ভুলে মানব ধর্ম প্রতিষ্ঠা করার মূলমন্ত্র নিয়ে কবিতা।
6.	সন্ধি -(ব্যাকরণ)	সন্ধি কাকে বলে শ্রেণীবিভাগ ও সন্ধির নিয়ম।
7.	বাগধারা ও প্রবাদবাক্য -(ব্যাকরণ)	প্রাচীনকাল থেকে চলে আসা কিছু প্রবাদ ও বাগধারা ।
8.	বাচ্য -(ব্যাকরণ)	কর্তা, কর্ম,এবং ক্রিয়ার ভাবে পরিবর্তন করা ও বাক্যকে প্রয়োগ করা শেখায়।
9.	সমার্থক শব্দ -(ব্যাকরণ)	একই শব্দের অনেকগুলো মানে শেখা।
10.	বোধপরীক্ষণ -(ব্যাকরণ)	কোনো পরিচ্ছেদ পরে তার সম্পর্কে প্রশ্ন উত্তর লিখতে সমর্থ হতে পারা।
11.	পত্র লিখন -(ব্যাকরণ)	পত্র রচনার নিয়মাবলী শিখিয়ে পত্ররচনার দক্ষতাকে যাচাই করা।
12.	অনুচ্ছেদ -(ব্যাকরণ)	শিক্ষার্থীর লিখন দক্ষতা যাচাই করা এবং বিভিন্ন বিষয় সম্পর্কে ধারণা হওয়া
13.	প্রকল্প:- ছিনাথ বহুরূপী (গল্প)	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	শাজাহান-(গল্প)	শাজাহান ও তার পুত্রদের মধ্যে ঘটিত যুদ্ধ ও তার অভ্যন্তরীণ পরিস্থিতি নিয়ে লেখা গল্প।
2.	শঙ্কর ও ব্ল্যাক মাস্টা-(গল্প)	-শঙ্কর ও তার রোমাঞ্চকর জীবনের একটি ঘটনা নিয়ে লেখা গল্প।
3.	আমি সুভাষ বলছি-(গল্প)	নেতাজির ২য় বিশ্বযুদ্ধে অংশগ্রহণ ও ভারতবাসীদের জাগ্রত করার কাহিনী নিয়ে গল্প।
4.	একটি ফুটবল ম্যাচ - (গল্প)	পটলডাঙ্গা ও দমদমের দুই দলের মধ্যে ঘটে যাওয়া দুর্দান্ত ফুটবল ম্যাচ নিয়ে লেখা কাহিনী।
5.	দাঁড়াও - (কবিতা)	দুঃখী অসহায় মানুষের পাশে এসে দাঁড়ানোর কথা নিয়ে লেখা কবিতা।
6.	সমাস -(ব্যাকরণ)	সমাস করার নিয়ম,শর্ত,ও বিভিন্ন ক্ষেত্রে প্রয়োগ উদাহরণ সহ।
7.	বাক্য -(ব্যাকরণ)	বাক্য নির্মাণের শর্ত ও শ্রেণীবিভাগ
8.	ভিন্নার্থক শব্দ -(ব্যাকরণ)	বাক্যের মধ্যে থাকা ভুল বানান
9.	শব্দের বিশিষ্ট প্রয়োগ	একে শব্দকে কত গুলো অর্থে ব্যবহার করতে পারি সেই বিষয়ে শিখবো।
10.	বাগধারা ও প্রবাদ -	প্রাচীনকাল থেকে চলে আসা কিছু প্রবাদ ও বাগধারা ।

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11.	বিপরীত শব্দ -	একটি শব্দের উল্টো মানে কি সেই সম্বন্ধে জানা
12.	বোধ পরীক্ষণ -	কোনো পরিচ্ছেদ পরে তার সম্পর্কে প্রশ্ন উত্তর লিখতে সমর্থ হতে পারা।
13.	পত্র লিখন -	পত্র রচনার নিয়মাবলী শিখিয়ে পত্ররচনার দক্ষতাকে যাচাই করা।
14.	অনুচ্ছেদ	শিক্ষার্থীর লিখন দক্ষতা যাচাই করা এবং বিভিন্ন বিষয় সম্পর্কে ধারণা হওয়া
15.	চিত্র লিখন -	শিক্ষার্থীর ভাবশক্তির দক্ষতা যাচাই করা যায়
16.	প্রকল্প:- দেবতার জন্ম	

2nd Language – Hindi

UNIT:		
SL. NO.	CONTENT	CONCEPTS
1.	কহানী- নেতা জী কা চশমা	স্বদেশ প্রেম, দেশ প্রেম কা অর্থ
2.	কহানী- কাকী	এক বচ্চে কী জিন্দগী उसकी माँ के इर्द गिर्द ही घूमता है
3.	কহানী- बात अठन्नी কী	रिश्तखोरी भी एक भ्रष्टाचार है
4.	কবিতা -সাখী	व्यावहारिक ज्ञान
5.	কবিতা- स्वर्ग बना सकते हैं	सामाजिक विषमताओं को दूर करने की प्रेरणा
6.	কবিতা- भिक्षुक	समाज के शोषित व्यक्तियों को भी आज अधिकारों की प्राप्ति हो। जिससे इतिहास की रचना हो सके
7.	व्याकरण- अपठित गद्यांश गद्यांश	गद्यांश को पढ़कर प्रश्न का उत्तर देना।
8.	मुहावरे	अर्थ तथा प्रयोग
9.	अशुद्धि शोधन	वर्तनी, लिंग, वचन, कारक तथा पद संबंधी गलतियों को सुधारना

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10.	अनेक शब्दों के लिए एक शब्द	वाक्यांश के लिए नए शब्दों का प्रयोग
11.	अनौपचारिक पत्र	व्यक्तिगत पत्र लिखने का ढांचा
12.	औपचारिक पत्र	व्यावसायिक पत्र लिखने का ढांचा

TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	कहानी- महायज्ञ का पुरस्कार	परोपकार सबसे बड़ा धर्म है
2.	कहानी- अपना अपना भाग्य	जीवनभाग्य पर आधारित होता है
3.	कहानी- संदेह	संदेह जीवन को दुखी बना देता है
4.	कविता- विनय के पद	ईश्वर पर विश्वास रखने पर ईश्वर भी हमारी रक्षा करते हैं
5.	कविता- जन्मभूमि मेरी	देश-प्रेम, देश का विस्तार, तथा देश के इतिहास संबंधी जानकारी
6.	कविता- गिरिधर की कुंडलियाँ	व्यावहारिक ज्ञान
7.	व्याकरण- भाववाचक संज्ञा	संज्ञा, सर्वनाम, क्रिया विशेषण भाववाचक संज्ञा में परिवर्तन
8.	मुहावरे	अर्थ तथा प्रयोग
9.	वाक्य परिवर्तन	निर्देशानुसार वाक्य परिवर्तन
10.	विपरीत शब्द	विपरीत अर्थ रखने वाले शब्दों का ज्ञान
11.	अनौपचारिक पत्र	व्यक्तिगत पत्र लेखन
12.	औपचारिक पत्र	व्यावसायिक पत्र लेखन
13.	परियोजना	भ्रष्टाचार तथा युवा पीढ़ी, इसे दूर करने में आपकी भूमिका ख) कबीरदास की जीवनी तथा उनके द्वारा लिखी गयी किसी टीम शक्ति का वर्णन अपने शब्दों में करें।

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	कहानी- दो कलाकार	मित्रता, सामाजिक हित संबंधी कार्य
2.	कहानी- भेड़ भेड़िया	व्यंग विधा का ज्ञान तथा पिछड़ी सरकारी व्यवस्था को अवगत कराना।
3.	कहानी- भीड़ में खोया आदमी	जनसंख्या वृद्धि के दुष्परिणाम

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4.	कहानी- बड़े घर की बेटी	संस्कार और शिक्षा हमें हमेशा अच्छाई की ओर ले जाती है।
5.	कविता- मेघ आए	बादल के आ जाने से हुए बदलाव
6.	कविता- सूर के पद	श्री कृष्ण के बचपन तथा श्रृंगार रस तथा वात्सल्य रस का ज्ञान
7.	कविता- चलना हमारा काम है	लक्ष्य तक पहुँचने की प्रेरणा
8.	कविता- मातृ मंदिर की ओर	देश -प्रेम, आशावादी सोच तथा सैनिकों में उत्साह भर देश।
9.	व्याकरण- अपठित गद्यांश	गद्यांश को पढ़कर प्रश्नों का उत्तर देना
10.	विशेषण	विशेषण में परिवर्तित करना
11.	मुहावरे	अर्थ तथा प्रयोग
12.	वाक्य परिवर्तन	निर्देशानुसार वाक्य में परिवर्तन
13.	निबंध	
14.	परियोजना	क)साइबरक्राइम या साइबर अपराध ख)बड़े घर की बेटी कहानी के माध्यम से लेखक हमें क्या संदेश देते हैं अपने शब्दों में लिखिए तथा आनन्दी का चरित्र चित्रण करें।

ECONOMICS

UNIT1:

SL. NO.	CONTENT	CONCEPTS
1.	Meaning & definition of Economics	Meaning, definition according to different economists.
2.	Basic concepts of Economics	Concept. Relation with other discipline.
3.	Basic problems of an Economy	Different types of problems depending on types of economy. Concept of developed & developing economy.
4.	Impact of Agricultural & Industrial practices of the Ecosystem	Importance of agriculture. Importance of industry. Interrelation between industry & agriculture, their impact on ecosystem.

TERMINAL:

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SL. NO.	CONTENT	CONCEPTS
1.	Economy & economic entities	Concept of economic entities & their function.
2.	The nature & the classification of an Economy	Types of economy with suitable examples.
3.	Solution of the economic problems	Possible solution of different types of problems faced by different types of economy.
4.	Social infrastructure	Concept. Different index of social infrastructure with detail analysis.
5.	Consumer awareness	Concept. Consumer awareness act. Different methods of consumer exploitation. Possible solution.
6.	Project- Consumer Awareness in India	

FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	The nature of the Indian Economy	Characteristics of Indian economy. Changes of scenario with present pattern.
2.	The Sectors of Indian Economy	Different types of Indian economy on the basis of activities with examples.
3.	Infrastructure of the Indian Economy	Basic infrastructure of Indian economy with different issues.
4.	Globalization	Concept. Background. Impact on Indian economy. Different types of MNCs.
5.	Basic Concepts of Economics (Revision)	Concept. Relation with other discipline.
6.	Impact of Agricultural & Industrial practices of the Ecosystem	Importance of agriculture. Importance of industry.

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	(Revision)	Interrelation between industry & agriculture, their impact on ecosystem.
7.	Project- Indian Agricultural system & its impact on ecosystem.	

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PHYSICAL EDUCATION

UNIT1:		
SL. NO.	CONTENT	CONCEPTS
1.	Skeletal System	<ul style="list-style-type: none"> • Identification of the bones • Functions of skeletal system • Different types of joints • Benefits of exercise on the skeletal system.
2.	Muscular System	<ul style="list-style-type: none"> • Types of muscles • Identification of muscles • Benefits of exercise on the muscular system.
3.	Any one from the following games (Cricket/Football/Hockey/Basketball/Volleyball/Badminton)	<ul style="list-style-type: none"> • Field measurement • Rules of the games

TERMINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Respiratory System	<ul style="list-style-type: none"> • A brief concept about pathway of air into the body • Mechanism of breathing • Meaning- Oxygen debt, Lactic acid accumulation, Second wind, Vital capacity, Tidal Volume. • Benefits of exercise on the respiratory system.
2.	Circulatory System	<ul style="list-style-type: none"> • Structure of heart • Meaning and difference – Heart rate, Stroke volume, Cardiac Output. • Composition of blood, Blood Group, Process of blood circulation. • Benefits of exercise on the circulatory system.
3.	Any one from the following games (Cricket/Football/Hockey/Basketball/Volleyball/Badminton)	<ul style="list-style-type: none"> • Field measurement • Rules of the games
	PROJECT : Diagram of the field with measurements and specification of any two games (Cricket/Football/Hockey/Basketball/Volleyball/Badminton).	

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FINAL:		
SL. NO.	CONTENT	CONCEPTS
1.	Skeletal System	<ul style="list-style-type: none"> • Identification of the bones • Functions of skeletal system • Different types of joints • Benefits of exercise on the skeletal system.
2.	Muscular System	<ul style="list-style-type: none"> • Types of muscles • Identification of muscles • Benefits of exercise on the muscular system.
3.	Respiratory System	<ul style="list-style-type: none"> • A brief concept about pathway of air into the body • Mechanism of breathing • Meaning- Oxygen debt, Lactic acid accumulation, Second wind, Vital capacity, Tidal Volume. • Benefits of exercise on the respiratory system.
4.	Circulatory System	<ul style="list-style-type: none"> • Structure of heart • Meaning and difference – Heart rate, Stroke volume, Cardiac Output. • Composition of blood, Blood Group, Process of blood circulation. • Benefits of exercise on the circulatory system.
5.	Any two from the following games (Cricket/Football/Hockey/Basketball/Volleyball/Badminton)	<ul style="list-style-type: none"> • Field diagram with measurements • Rules of the games • Fundamental skills and techniques • Associated terminology, National and international governing bodies, National and international tournaments
	PROJECT : Heart Diagram with Labels and Detailed Explanation.	

PRACTICAL : Any two from the following games (Cricket/Football/Hockey/Basketball/Volleyball/Badminton).

- Rules of the Games
- Fundamental Skills