

St. Stephen's School Birati

Syllabus 2026-27

Index

Sl. No.	Content
1	Computer
2	English Grammar
3	English Literature
4	Mathematics
5	Physics
6.	Chemistry
7.	Biology
8.	Geography
9.	History
10.	2 nd Language - Bengali
11.	2 nd Language - Hindi
12.	Economic Application
13	Commercial Studies
14.	Physical Education
15.	Music

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Syllabus 2026-27

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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Syllabus 2026-27

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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Syllabus 2026-27

- 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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Syllabus 2026-27

Computer

IAT:

Sl No	Content	Concept
1	Conditional Constructs in java(<i>chp-7</i>)	If-else, Switch case
2	Class as the basis of all computation(<i>chp-10</i>)	Access Specifiers ,data members,member methods,'This' Keyword,Object as instance of class
3	User Defined Methods(<i>chp-11</i>)	Ways to invoke method,Function-overloading,Pure and Impure methods
4	Constructors(<i>chp-12</i>)	Parameterized and Non-Parameterized,Constructor Overloading

PRE SELECTION:

Sl No	Content	Concept
1	Array(<i>chp-15</i>)	Types and length of array,1D and 2D array,Different operations on array,Searching and Sorting.
2	String Handling in java(<i>chp-16</i>)	Methods of String class,Stringarray,How string is stored in memory
3	Iterative Constructs in java(<i>chp-8</i>)	For-While and Do-while loops
4	Nested Loops(<i>chp-9</i>)	Pattern Programs,Break and Continue
5	Mathematical Library Methods(<i>chp-6</i>)	Methods of Math Class
6	Operators in java(<i>chp-4</i>)	Types and hierarchy in java,Special operators and Associativity of operators
7	Elementary Concepts of objects and classes(<i>chp-2</i>)	Properties of class and object
8	Values and Types(<i>chp-3</i>)	Character set in java,Datatypes in java,Type Conversion
9	Introduction to object oriented programming(<i>chp-1</i>)	Programming Paradigms-POP and OOP,Features of OOP

SELECTION

FULL BOOK

PROJECT-20 Programs on JAVA

Practical- As per the chapters



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Syllabus 2026-27

ENGLISH LANGUAGE

SELECTION 1:

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

SELECTION 2:

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

SELECTION 3:

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



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Syllabus 2026-27

9.	Do as Directed	Functional Grammar
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ENGLISH LITERATURE

IAT:

SL NO.	CHAPTERS	CONCEPTS
1.	Haunted Houses	The spiritual presence
2.	The Power of Music	Profound impact of music
3.	The Girl Who Can	Traditional gender role
4.	Julius Caesar - Act III, Scene I and II	Political atmosphere

(PRE SELECTION):

SL NO.	CHAPTERS	CONCEPTS
1.	The Glove and the Lions	Chivalry, true bravery
2.	A Considerable Speck	The value of all life
3.	When Great Trees Fall	Impact of loss
4.	With the Photographer	Satire on artificiality
5.	The Girl Who Can	Traditional gender role
6.	The Last Lesson	One's native language
7.	Julius Caesar - Act III and IV	Political atmosphere

FINAL (SELECTION):

SL NO.	CHAPTERS	CONCEPTS
1.	Haunted Houses	The spiritual presence
2.	The Glove and the Lions	Chivalry, true bravery
3.	When Great Trees Fall	Impact of loss
4.	A Considerable Speck	Value of all life
5.	The Power of Music	Profound impact of music
6.	With the Photographer	Satire
7.	The Elevator	Fear, paranoia
8.	The Girl Who Can	Traditional gender roles
9.	The Pedestrian	Technology-driven
10.	The Last Lesson	One's native language



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Syllabus 2026-27

11.	Julius Caesar - Act III, IV and V	Political atmosphere
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Biology

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Genetics	Three laws of Mendel, Monohybrid & dihybrid cross, related terms, sex determination in humans, sex-linked inheritance of diseases
2.	Transpiration	Details idea of transpiration with experiments, mechanism of stomatal transpiration, adaptation in plants, Guttation & bleeding
3.	Chemical Coordination in plants	General study of plant growth regulators, physiological effects of different plant hormone, different types of movements
4.	The Nervous system	Structure of neuron, central, autonomous and peripheral nervous system, brain and spinal cord, reflex action and others

(PRE SELECTION):		
SL. NO.	CONTENT	CONCEPTS
1.	Photosynthesis	Detailed idea about photosynthesis; focus on different reactions etc.
2.	The Circulatory System	Structure & function of heart, blood circulation and details related to circulatory system
3.	Sense Organ	Eye- structure and functions, defects and corrective measures; Ear- parts and functions
4.	The Reproductive system	Details of both male & female reproductive system in humans, related terms, sex-hormones
5.	Population	Sharp rise in human population in India and in the world, Demography and other key words, population explosion, control measures.

SELECTION TEST: - FULL BOOK

PROJECT- HUMAN EVOLUTION (HALF YEARLY / PRE SELECTION + ICSE)

PRACTICAL:

1. To study the different stages of mitosis through permanent slides
2. Diffusion in liquid by using potassium permanganate crystals
3. To study osmosis (potato)
4. Transpiration / Rate of transpiration

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Syllabus 2026-27

5. Photosynthesis
6. Study of human urinary system (chart/model)
7. Study the structure of human heart (chart/model)
8. Study structure of human brain (chart/model)
9. Identification of different types of blood cells (human)
10. Study the structure of human eye (chart/model)

Study the structure of human ear (chart/model)

MATH

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Banking	Recurring deposit account.
2.	Linear inequations	Inequalities among real numbers, linear inequations, solving linear inequations in one variable.
3.	Factorization	Polynomial and related terms, remainder theorem, factor theorem, use of factor theorem.
4.	Matrices	Matrix, operations on matrices, multiplication of matrices.
5.	Arithmetic and geometric progressions	Arithmetic progression (A.P.), general term of an A.P., sum of first n terms of an A.P.
6.	Reflection	Cartesian system of coordinates, reflection of a point in a line, reflection of a point in a point.
7.	Section formula	Section formula, Midpoint formula, centroid of a triangle,
8.	Similarity	Similar figures, similarity as a size transformation, similarity of triangles, Thales theorem, areas of similar triangles, maps and models.
9.	Locus	Locus in some standard cases, construction.
10.	Mensuration	Surface area and volume of a cylinder, cone and sphere
11.	Trigonometric identities	Trigonometric ratios, identities
12.	Measures of central tendency	Mean and median.



St. Stephen's School Birati

Syllabus 2026-27

PRE SELECTION:		
SL. NO.	CONTENT	CONCEPTS
1.	Shares and dividends	Share, dividend, formulae.
2.	Quadratic equations in one variable	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.
3.	Ratio and proportion	Ratio, proportion, properties.
4.	Arithmetic and geometric progressions	Geometric progression (G.P.), general term of a G.P., sum of first n terms of a G.P.
5.	Equation of a straight line	Definitions, equation of a straight line in different forms, parallelism and perpendicularity.
6.	Circles	Angle properties of circles, cyclic properties of circles, tangent and secant properties of circles.
7.	Constructions	Construction of tangents to a circle, construction of circumscribed and inscribed circles.
8.	Mensuration	Surface area and volume of combination of solids, conversion of solid from one shape to another.
9.	Heights and distances	Heights and distances, angle of elevation and angle of depression
10.	Measures of central tendency	Mode and Ogives.
11.	Probability	Definition, a note on a pack of 52 cards, a note on tossing two different coins simultaneously, a note on throwing two different dice simultaneously.
12.	Factorisation	Polynomial and related terms, remainder theorem, factor theorem, use of factor theorem.
13.	Matrices	Matrix, operations on matrices, multiplication of matrices.

SELECTION TEST :

Syllabus - Full book

Project – Mensuration



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Physics

ITA:		
SL. NO.	CONTENT	CONCEPTS
1.	Force	Moment of a force and Equilibrium Centre of gravity
2.	Machines	Machines as a force multiplier, levers
3.	Refraction of light at plane surface	Laws of refraction, refractive index, refraction through glass block, critical angle and triangular prism
4.	Sound	Reflection of sound waves and Echoes Natural, Damped & Forced vibrations; Resonance and Characteristics of sound & their subjective and objective nature.
5.	Spectrum	Using glass prism to produce spectrum, scattering of light

PRE SELECTION:		
SL. NO.	CONTENT	CONCEPTS
1.	Current electricity	Concept of charge, current, potential, potential difference & resistance; Ohms' law Electro-motive force, terminal voltage & internal resistance
2.	Calorimetry	Heat capacity, specific heat and it's measurement.
3.	Refraction of light through a lens	Lens and refraction of light through a lens Formation of image by a lens Sign convention and lens formula.
4.	Machines	Concept of pulley and their combination along with full chapter.
5.	Radioactivity	Atomic structure and radioactivity, emission of alpha, beta and gamma Nuclear fission and fusion.
	Project: Calorimetry	

Selection Test - Full book



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Syllabus 2026-27

PRACTICAL

1. To determine the focal length of a convex lens using distant object method.
2. To determine the weight of a given object using a metre scale.
3. To trace the path of a ray of light passing through a glass prism.
4. Ohm's law verification.
5. To trace the path of different rays of light refracting.
6. Determine the focal length of a given convex lens using optical bench.

Chemistry

IAT:

SL. NO.	CONTENT	CONCEPTS
1.	Study of compounds B. Ammonia	Occurrence, preparation, physical properties, chemical properties, uses
2.	Study of compounds C. Nitric acid	Occurrence, preparation, physical properties, chemical properties, uses
3.	Study of compounds D. Sulphuric Acid	Occurrence, preparation, physical properties, chemical properties, uses
4.	Organic chemistry	Organic compounds, hydrocarbons, nomenclature, isomerism, alcohol, carboxylic acids
5.	Periodic table (already done in class IX)	Reason for classification of elements, laws, periodic properties and their variations in group and periods, periodicity, general trends, study of specific groups, uses
6.	Electrolysis (already done in class IX)	Electrolytes and non-electrolytes, electrodes, electrochemical series, examples, applications

PRE SELECTION:

SL. NO.	CONTENT	CONCEPTS
1.	Mole concept and stoichiometry	Gay - Lussac's law and Avogadro's law, RAM, RMM, Mole concept, percentage composition, empirical and molecular formulae, calculations based on chemical equations
2.	Metallurgy	Metals, stages involved in metal extraction, extraction of Aluminium, Alloys



St. Stephen's School Birati

Syllabus 2026-27

3.	Acids, bases and salts	Acids and bases, pH, indicators, salts and their properties, preparation of salts
4.	Organic chemistry (repeat)	Organic compounds, hydrocarbons, nomenclature, isomerism, alcohol, carboxylic acids
5.	Analytical chemistry (already done in class IX)	Colour of salts, action of NaOH and NH ₄ OH, action of alkalis on certain metals and metal oxides
6.	Study of compounds B. Ammonia (repeat)	Occurrence, preparation, physical properties, chemical properties, uses
7.	Chemical Bonding (already done in class IX)	Ionic, Covalent, Co- ordinate bond, orbital and Lewis structure, OILRIG concept

Selection Examination – Full class X Book

Project for ICSE → Electrolysis

Practical –

- 1) Identification of gases by different methods
- 2) Inorganic qualitative analysis
- 3) Action of NaOH and NH₄OH on metallic salts
- 4) Determination of acidic solution and alkaline solution
- 5) Distinguishing between copper oxide and MnO₂ with the help of concentrated HCl

ENVIRONMENTAL SCIENCE

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	MANAGING THE ENVIRONMRNT	• DEFINE URBANIZATION • PLANNING ENVIRONMENTAL IMPROVEMENT • CONTROLL OF MIGRATION. • DEVELOPMENT OF SECONDARY CITIES
2.	MANAGING SOIL AND LAND	• DEFINE SOIL AND CONSERVATION OF SOIL • LANDFORMS AND RURAL DEVELOPMENT

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Syllabus 2026-27

		• ROLE OF COMMUNITY IN CONSERVATION
3.	FOOD	• SUSTAINABLE AGRICULTURE • REGENERATING FARMING TECHNIQUES • INTEGRATED NUTRIENT SUPPLY PROGRAMME
4.	CONTROLLING AIR POLLUTION	• REPEAT CHAPTER
5.	ADDERSING POPULATION	• REPEAT CHAPTER

PRE SELECTION:

SL. NO.	CONTENT	CONCEPTS
1.	MANAGING THE ENVIRONMRNT	• DEFINE URBANIZATION • PLANNING ENVIRONMENTAL IMPROVEMENT • CONTROLL OF MIGRATION. • DEVELOPMENT OF SECONDARY CITIES
2.	MANAGING SOIL AND LAND	• DEFINE SOIL AND CONSERVATION OF SOIL • LANDFORMS AND RURAL DEVELOPMENT • ROLE OF COMMUNITY IN CONSERVATION
3.	FOOD	• SUSTAINABLE AGRICULTURE • REGENERATING FARMING TECHNIQUES • INTEGRATED NUTRIENT SUPPLY PROGRAMME
4.	CONTROLLING AIR POLLUTION	• REPEAT CHAPTER
5.	ADDERSING POPULATION	• REPEAT CHAPTER
6.	BIODIVERSITY	• BIO-DIVERSITY AT RISK • CONSERVING BIODIVERSITY • CONSERVATION STRATEGIES AT NATIONAL

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		AND INTERNAL LEVELS
7.	ENERGY	• DEFINITION AND TYPES • SUSTAINABLE ENERGY FOR FUTURE • ADVANTAGES AND DISADVANTAGES OF DIFFERENT TYPES OF ENERGY.
8.	WASTE	• DEFINITION AND TYPES • ADVANTAGES AND DISADVANTAGES OF TYPES • SOLID WASTE- OPTION FOR THE FUTURE
9.	ENVIRONMENT AND DEVELOPMENT	• DEFINITION • GLOBAL ENVIRONMENTAL POLLUTION • ECONOMIC DEVELOPMENT AND ENVIRONMENTAL DEGRATION • INTERNATIONAL TRADE AND TYPES
10.	TOWARDS A SUSTAINABLE FUTURE	• GLOBAL INTERDEPENDENCE • ENVIRONMENT AND LOSS OF BIODIVERSITY • GLOBAL ENVIRONMENTAL HEALTH AND FACILITY • INTERNATIONAL COOPERATION-THE MONTREAL PROTOCOL • EARTH SUMMIT AND SUSTAINABLE DEVELOPMENT.

Project: Towards a sustainable future.

FINAL : FULL SYLLABUS

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Syllabus 2026-27

Geography

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	CLIMATE	• Distribution of Temperature, Rainfall, winds in Summer and Winter • factors affecting the climate of India: latitudes, altitude, distance from sea, winds, Himalayas, jet streams, and El Nino • Monsoon and its mechanism. • Seasons: Summer; Monsoon, Retreating Monsoon and winter. • Temperature and pressure conditions, wind movements, local winds, precipitation and interpretation of climate data
2.	SOIL RESOURCES	• Types of Soil Types of soil: alluvial, black, red and laterite. Mode of formation, distribution, composition and characteristics such as colour, texture, minerals and crops associated. • Soil Erosion Meaning, agents and causes. • Soil Conservation Importance and methods.
3.	NATURAL VEGETATION	• Importance of Forests • Types of Vegetation Distribution and correlation with their environment: tropical evergreen, tropical deciduous, tropical desert, littoral and mountain. • Forest Conservation Afforestation, reforestation, social forestry, agroforestry and Van Mahotsav.
4.	WATER RESOURCES	• Sources Surface water and ground water. • Need for Conservation • Rainwater Harvesting Rainwater harvesting and its importance. • Irrigation Importance and methods – wells, tube well, tanks, canal, drip and sprinkler irrigation. •
6.	MINERAL RESOURCES	• Minerals Iron ore, Manganese, Copper, Bauxite – uses and their distribution (two

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Syllabus 2026-27

		leading states and their prominent mining areas).
7.	TOPOSHEET	• Study of symbols • Four figure and six figure grid.
8.	MAP	On an outline map of India, candidates will be required to locate, mark and name the following: Rivers (To be identified): Indus, Ravi, Beas, Chenab, Jhelum, Satluj, Ganga, Yamuna, Ghaghra, Gomti, Gandak, Kosi, Chambal, Betwa, Brahmaputra, Narmada, Tapti, Mahanadi, Godavari, Krishna, Cauveri. Water Bodies (To be marked): Gulf of Kutch, Gulf of Khambhat, Gulf of Mannar, Palk Strait, Andaman Sea, Wular Lake. Latitude and Longitudes (To be identified): Tropic of Cancer, Standard Meridian (82° 30'E). Direction of Winds (To be marked): Southwest Monsoons (Arabian Sea and Bay of Bengal Branches), Northeast Monsoons and Western Disturbances.

PRE SELECTION:

SL. NO.	CONTENT	CONCEPTS
1.	CLIMATE	• Distribution of Temperature, Rainfall, winds in Summer and Winter • factors affecting the climate of India: latitudes, altitude, distance from sea, winds, Himalayas, jet streams, and El Nino • Monsoon and its mechanism. • Seasons: Summer; Monsoon, Retreating Monsoon and winter. • Temperature and pressure conditions, wind movements, local winds, precipitation and interpretation of climate data
2.	SOIL RESOURCES	• Types of Soil Types of soil: alluvial, black, red and laterite. Mode of formation, distribution,

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Syllabus 2026-27

		composition and characteristics such as colour, texture, minerals and crops associated. ● Soil Erosion Meaning, agents and causes. ● Soil Conservation Importance and methods.
3.	NATURAL VEGETATION	● Importance of Forests ● Types of Vegetation Distribution and correlation with their environment: tropical evergreen, tropical deciduous, tropical desert, littoral and mountain. ● Forest Conservation Afforestation, reforestation, social forestry, agroforestry and Van Mahotsav.
4.	WATER RESOURCES	● Sources Surface water and ground water. ● Need for Conservation ● Rainwater Harvesting Rainwater harvesting and its importance. ● Irrigation Importance and methods – wells, tube well, tanks, canal, drip and sprinkler irrigation. ●
5.	MINERAL RESOURCES	● Minerals Iron ore, Manganese, Copper, Bauxite – uses and their distribution (two leading states and their prominent mining areas).
9.	CONVENTIONAL SOURCES OF ENERGY	● Conventional Sources Coal, Petroleum, Natural gas – distribution, advantages and disadvantages. Hydel Power Bhakra Nangal Dam and Hirakud Projects and their benefits.
10.	NON CONVENTIONAL SOURCES OF ENERGY	Non-conventional Sources Solar, wind, tidal, geo-thermal, nuclear and bio-gas – important areas and advantages and disadvantages.
11.	MANUFACTURING INDUSTRIES (Agro Based)	● Importance and classification: large scale, small scale, mineral-based, agro-based, public and private sector.

St. Stephen's School Birati

Syllabus 2026-27

		Agro Based Industry Sugar, Textile (Cotton and Silk).
12.	MANUFACTURING INDUSTRIES (Mineral Based)	Mineral Based Industry Integrated Iron and Steel plants: Tata Steel, Rourkela, Vishakhapatnam. Petro Chemical and Electronics (some key centers) – relevance in the modern world.
13.	TRANSPORT	● Importance and Modes. ● Roadways Factors affecting its development, advantages and disadvantages. Expressways, national highways, NSEW Corridor and Golden Quadrilateral – meaning and importance. ● Railways Factors affecting its development, advantages and disadvantages. ● Airways Advantages and disadvantages. Waterways Inland and coastal, advantages and disadvantages.
15	WASTE MANAGEMENT (IMPACT & DISPOSAL)	● Impact of Waste Accumulation Spoilage of landscape, pollution, health hazards. ● Need for Waste Management ● Key Terms (in brief) Global warming, acid rain, eutrophication, biomagnifications and thermal pollution. ● Methods of Safe Disposal Segregation, dumping and composting. ● Reducing, Reusing and Recycling Need and methods for reducing, reusing and recycling waste. ●
16	TOPOSHEET	● Grid References Locating features with the help of a four figure or a six-figure grid reference. ● Contours and Landforms Definition of contour and contour

St. Stephen's School Birati

Syllabus 2026-27

		interval. Identification of landforms marked by contours: steep slope, gentle slope, hill, ridge, escarpment. Triangulated height, spot height, relative height/depth. • Colour Tints and Conventional Symbols Interpretation of colour tints and conventional symbols used on a topographical survey of India map. • Scale and Measurement Identification and definition of types of scale given on the map: Statement scale, Representative Fraction and Linear Scale. Measuring distances (direct distance only) and calculating area (full grid square) using the scale given therein. • Directions Marking directions between different locations, using eight cardinal points. • Settlements and Land Use Identify: site of prominent villages/towns/settlements, services available, types of land use/land cover and means of transport (metalled, unmetalled, cart track, pack track, footpath) and communication with the help of the index given at the bottom of the sheet. • Drainage and Settlement Patterns Identification of drainage (direction of flow and pattern – dendritic, trellised and radial) and settlement patterns (clustered and dispersed). • Natural and Man-made Features Identification of natural and man-
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St. Stephen's School Birati

Syllabus 2026-27

		made features.
17	MAP	On an outline map of India, candidates will be required to locate, mark and name the following: 6 map features for marking and 4 features for identification. ● Mountains, Peaks and Plateaus (To be marked): Himalayas, Karakoram, Aravali, Vindhya, Satpura, Western and Eastern Ghats, Nilgiris, Khasi, Mount Godwin Austin (K2), Mount Kanchenjunga, Deccan Plateau, Chota Nagpur Plateau. ● Plains (To be marked): Gangetic Plains and Coastal plains – Konkan, Malabar, Coromandel, Northern Circars. ● Desert (To be marked): Thar (The Great Indian Desert) ● Passes (To be marked): Karakoram. ● Distribution of Minerals (To be identified): Oil – Mumbai High (Offshore Oil Field) and Digboi. Iron – Singhbhum. Coal – Jharia. ● Soil Distribution (To be marked): Alluvial, Black and Red Soil. ● Cities (To be identified): Delhi, Mumbai, Kolkata, Chennai, Hyderabad, Bengaluru, Kochi, Allahabad. ● Population (To be marked): Distribution of Population (Dense and sparse). ●

St. Stephen's School Birati

Syllabus 2026-27

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St. Stephen's School Birati

Syllabus 2026-27

		● Irrigation Importance and methods – wells, tube well, tanks, canal, drip and sprinkler irrigation. ●
5.	MINERAL RESOURCES	● Minerals Iron ore, Manganese, Copper, Bauxite – uses and their distribution (two leading states and their prominent mining areas).
9.	CONVENTIONAL SOURCES OF ENERGY	● Conventional Sources Coal, Petroleum, Natural gas – distribution, advantages and disadvantages. Hydel Power Bhakra Nangal Dam and Hirakud Projects and their benefits.
10.	NON CONVENTIONAL SOURCES OF ENERGY	Non-conventional Sources Solar, wind, tidal, geo-thermal, nuclear and bio-gas – important areas and advantages and disadvantages.
11.	MANUFACTURING INDUSTRIES (Agro Based)	● Importance and classification: large scale, small scale, mineral-based, agro-based, public and private sector. Agro Based Industry Sugar, Textile (Cotton and Silk).
12.	MANUFACTURING INDUSTRIES (Mineral Based)	Mineral Based Industry Integrated Iron and Steel plants: Tata Steel, Rourkela, Vishakhapatnam. Petro Chemical and Electronics (some key centers) – relevance in the modern world.
13.	TRANSPORT	● Importance and Modes. ● Roadways Factors affecting its development, advantages and disadvantages. Expressways, national highways, NSEW Corridor and Golden Quadrilateral – meaning and importance. ● Railways Factors affecting its development, advantages and disadvantages. ● Airways Advantages and disadvantages. Waterways Inland and coastal, advantages and disadvantages.

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Syllabus 2026-27

15	WASTE MANAGEMENT (IMPACT & DISPOSAL)	● Impact of Waste Accumulation Spoilage of landscape, pollution, health hazards. ● Need for Waste Management ● Key Terms (in brief) Global warming, acid rain, eutrophication, biomagnifications and thermal pollution. ● Methods of Safe Disposal Segregation, dumping and composting. ● Reducing, Reusing and Recycling Need and methods for reducing, reusing and recycling waste. ●
16	AGRICULTURE(FOOD AND CASH CROPS)	● Indian Agriculture Importance, problems and benefits. Green Revolution – meaning and impact of first green revolution. ● Types of Farming in India Subsistence and commercial: intensive, extensive, plantation and mixed. ● Agricultural Seasons Rabi, kharif, zayad. ● Climatic Conditions, Soil Requirements, Methods of Cultivation, and Distribution (Major Producing States) of the Following Crops: ● Rice, wheat, millets and pulses. (ii) Sugarcane, oilseeds (groundnut, mustard and soya bean). (iii) Cotton, jute and tea. ●
17	TOPOSHEET	● Grid References Locating features with the help of a four figure or a six-figure grid reference. ● Contours and Landforms Definition of contour and contour interval. Identification of

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Syllabus 2026-27

		landforms marked by contours: steep slope, gentle slope, hill, ridge, escarpment. Triangulated height, spot height, relative height/depth. • Colour Tints and Conventional Symbols Interpretation of colour tints and conventional symbols used on a topographical survey of India map. • Scale and Measurement Identification and definition of types of scale given on the map: Statement scale, Representative Fraction and Linear Scale. Measuring distances (direct distance only) and calculating area (full grid square) using the scale given therein. • Directions Marking directions between different locations, using eight cardinal points. • Settlements and Land Use Identify: site of prominent villages/towns/settlements, services available, types of land use/land cover and means of transport (metalled, unmetalled, cart track, pack track, footpath) and communication with the help of the index given at the bottom of the sheet. • Drainage and Settlement Patterns Identification of drainage (direction of flow and pattern – dendritic, trellised and radial) and settlement patterns (clustered and dispersed). • Natural and Man-made Features Identification of natural and man-made features.
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Syllabus 2026-27

18	MAP	On an outline map of India, candidates will be required to locate, mark and name the following: 6 map features for marking and 4 features for identification. ● Mountains, Peaks and Plateaus (To be marked): Himalayas, Karakoram, Aravali, Vindhya, Satpura, Western and Eastern Ghats, Nilgiris, Khasi, Mount Godwin Austin (K2), Mount Kanchenjunga, Deccan Plateau, Chota Nagpur Plateau. ● Plains (To be marked): Gangetic Plains and Coastal plains – Konkan, Malabar, Coromandel, Northern Circars. ● Desert (To be marked): Thar (The Great Indian Desert) ● Passes (To be marked): Karakoram. ● Distribution of Minerals (To be identified): Oil – Mumbai High (Offshore Oil Field) and Digboi. Iron – Singhbhum. Coal – Jharia. ● Soil Distribution (To be marked): Alluvial, Black and Red Soil. ● Cities (To be identified): Delhi, Mumbai, Kolkata, Chennai, Hyderabad, Bengaluru, Kochi, Allahabad. ● Population (To be marked): Distribution of Population (Dense and sparse). ●
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FINAL : FULL SYLLABUS WITH TOPOSHEET AND MAPS

PROJECT: Industries: List different types of industries in the States and collect information about the types of raw materials used, modes of their procurement and



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Syllabus 2026-27

disposal of wastes generated. Classify these industries as polluting or environment friendly and suggest possible ways of reducing pollution caused by these units

History

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	The Union Parliament	Knowing about law making
2.	The Union Executive: Vice President	Knowing about the powers of the Vice-President
3.	The First War of Independence (1857)	The first major armed uprising of the Indians against the British
4.	Factors Leading to Growth of Nationalism and Foundation of the INC	Birth of Indian Nationalism and political organization
5.	National Movement: 1919-1934	Knowing about the Non-Cooperation and Civil-Disobedience Movement

PRE SELECTION:		
SL. NO.	CONTENT	CONCEPTS
1.	Objectives and struggle of the Early Nationalists	Political organization of the Moderates
2.	Second phase of the Indian National Movement	Political organization of the Radicals
3.	The Cripps Mission and Quit India Movement	The British seeking help from Indians during WWII
4.	Subhas Chandra Bose	Contributions of Subhas Chandra Bose in India's struggle for freedom
5.	Independence and the Partition of India	Knowing about India's freedom and partition
6.	The First World War	Major world military conflict
7.	Rise of Dictatorship	Benitto Mussolini and Adolf Hitler coming to power in Italy and Germany
8.	The Second World War	Deadliest conflict in human history
9.	The Non-Aligned Movement	Political neutrality of the newly independent nations
10.	Union Executive: Prime Minister and President	Knowing about the powers and functions of the real executive head of the government and the constitutional head of the country



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Syllabus 2026-27

11.	Judiciary	Upholding the law of a nation
12.	Objectives and struggle of the Early Nationalists	Political organization of the Moderates
	Project- Contributions of Subhash Chandra Bose and Mahatma Gandhi in the Struggle for Freedom: A Compative case study	

FINAL EXAMINATION

THE WHOLE SYLLABUS OF HISTROY AND CIVICS

2nd Language – Bengali

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	গন্ধাটা খুব সন্দেহজনক (গল্প)	লেখকের দাদুর তার পরিবার নিয়ে বদলি হয়ে দোহোমনিতে যাওয়া ও সেখানে তাদের সাথেই ঘটে যাওয়া ঘটনা নিয়ে লেখা গল্প।
2.	খো খো (কবিতা)	একটি খো খো খেলা মেয়েকে নিয়ে লেখা কবিতা।
3.	বাচ্য পরিবর্তন (ব্যাকরণ)	কর্তা, কর্ম, এবং ক্রিয়ার ভাবে পরিবর্তন করা ও বাক্যে প্রয়োগ করা শেখায়।
4.	অশুদ্ধি শোধন (ব্যাকরণ)	বাক্যের মধ্যে থাকা ভুল বানান
5.	এক কথায় প্রকাশ (ব্যাকরণ)	একটি কথায় শব্দের প্রকাশ বা সংকোচন
6.	সাধু ও চলিত (ব্যাকরণ)	সাধু ভাষা ও চলিত ভাষা পরিবর্তন করার নিয়ম ও উদাহরণ।
PRE SELECTION:		
1.	বঙ্গভূমির প্রতি - (কবিতা)	বঙ্গমাতার প্রতি কবির ভালোবাসা, শ্রদ্ধা নিয়ে লেখা কবিতা।
2.	নাম (গল্প)-	এক লোকের তার মার জন্য টান ও বৃদ্ধার সাথে তার মাতৃসুলভ সম্পর্ক নিয়ে গল্প
3.	লোকটি (গল্প)	আজহারউদ্দিন ও এক ব্যক্তির থেকে পাওয়া হীরে নিয়ে লেখা গল্প।
4.	অমলকান্তি -- (কবিতা)	কবির বন্ধু যে রোদুর হতে চেয়েছিলো কিন্তু শেষ পরিণতি কি হয়েছিল সেই নিয়ে লেখা কবিতা।
5.	অসহযোগী- (গল্প)	দুষ্ট ছেলে রমেনের বিপ্লবী হয়ে ওঠার গল্প।
6.	বামা - (গল্প)	গ্রামের এক সাহসী নারী বামার গল্প।
7.	আবার আসিব ফিরে - (কবিতা)	কবির তার জন্মভূমির প্রতি টান ও বারবার ফিরে আসার ইচ্ছে নিয়ে লেখা কবিতা।
8.	কুলি মজুর - (কবিতা)	চিরকাল ধরে অত্যাচারিত হয়ে আসা শ্রমিক শ্রেণীকে নিয়ে লেখা কবিতা।
9.	সমোচ্চারিত ভিন্নার্থক শব্দ (ব্যাকরণ)	একই শব্দের ভিন্ন অর্থ সম্পর্কে শেখা।



St. Stephen's School Birati

Syllabus 2026-27

10	বাক্য পরিবর্তন (ব্যাকরণ)	বাক্য পরিবর্তন করার নিয়ম ও তার শ্রেণীবিভাগ এবং বিভিন্ন ক্ষেত্রে প্রয়োগ।
11	উপসর্গ ও অনুসর্গ (ব্যাকরণ)	কোনটি কোথায় বসে, কি কাজ এইসব শেখায়।
12	সমার্থক শব্দ (ব্যাকরণ)	একই শব্দের অনেকগুলো মানে শেখা।
13	উক্তি পরিবর্তন (ব্যাকরণ)	প্রত্যক্ষ ও পরোক্ষ ভাবে উক্তি পতিবর্তন করার নিয়ম
14	বাগধারা ও প্রবাদ -	প্রাচীনকাল থেকে চলে আসা কিছু প্রবাদ ও বাগধারা।
15	বোধ পরীক্ষণ -	কোনো পরিচ্ছেদ পরে তার সম্পর্কে প্রশ্ন উত্তর লিখতে সমর্থ হতে পারা।
16	পত্র লিখন -	পত্র রচনার নিয়মাবলী শিখিয়ে পত্ররচনার দক্ষতাকে যাচাই করা।
17	অনুচ্ছেদ	শিক্ষার্থীর লিখন দক্ষতা যাচাই করা এবং বিভিন্ন বিষয় সম্পর্কে ধারণা হওয়া
18	চিত্র লিখন -	শিক্ষার্থীর ভাবশক্তির দক্ষতা যাচাই করা যায়
	প্রকল্প:- লোকটি (গল্প)	

- **SELECTION:- ICSE CLASS 10 FULL SYLLABUS**

2nd Language – Hindi

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	सूर के पद	वात्सल्य रस तथा शृंगार रस का ज्ञान।
2.	वनिय के पद	ईश्वर के प्रति अटूट विश्वास ही मुक्ति का मार्ग है।
3.	संदेह	संदेश व्यक्त के विकास में बाधक होता है।
4.	भक्तिषुक (कविता)	कमजोर वर्ग के लिए आवाज उठाना।
5.	बड़े घर की बेटी	अच्छे संस्कार की सीख
6.	विपरीत शब्द	उल्टा शब्द
7.	अनेक शब्दों के लिए एक शब्द	वाक्यांश को संक्षिप्त करना।
8.	भाववाचक संज्ञा	संज्ञा सर्वनाम और विशेषण क्रिया का भाववाचक संज्ञा में बदलाव।
9.	मुहावरे	वाक्यांश का अर्थ तथा प्रयोग
10.	अपठित गद्यांश	गद्यांश को पढ़कर अपने शब्दों में उत्तर।
11.	औपचारिक तथा अनौपचारिक पत्र	पत्र लेखन कौशल
12.	निबंध	



St. Stephen's School Birati

Syllabus 2026-27

PRE SELECTION:		
1.	भीड़ में खोया आदमी	बढ़ती जनसंख्या एक आधारभूत समस्या है।
2.	दो कलाकार	सामाजिक विकास का हिस्सा बनना।
3.	भेड़ और भेड़िया	प्रजातंत्र पर करारा प्रहार।
4.	चलना हमारा काम है	मंजिल पानी के लिए हमेशा कोशिश करते रहना चाहिए। गति ही जीवन है
5.	मातृ मंदिर को ओर	सच्चा देशभक्ति
6.	व्याकरण:	
7.	विपरीत शब्द	उल्टा अर्थ वाले शब्द।
8.	अनेक शब्दों के लिए एक शब्द	वाक्यांश के लिए एक शब्द।
9.	पर्यायवाची शब्द	समान अर्थ वाले शब्द
10	भाववाचक संज्ञा	संज्ञा सर्वनाम सर विशेषण तथा क्रिया को भाववाचक संज्ञा में बदलना
11	अशुद्धि शोधन	ईश्वर के प्रति अटूट विश्वास ही मुक्ति का मार्ग है।
12	मुहावरे	वाक्यांश का अर्थ तथा वाक्यांश से वाक्य बनाना
13	वाक्यांतर	निर्देशानुसार वाक्य को बदलना।
14	अपठित गद्यांश	गद्यांश को पढ़कर उसमें से पूछे गए प्रश्नों का उत्तर देना।
15	पत्र लेखन	व्यवहारिक तथा व्यक्तिगत पत्र।
16	निबंध	भावनात्मक, विचारात्मक, तथा विषय के पक्ष और विपक्ष में तर्क प्रस्तुत करना
	परियोजना 1. योग से शरीर और मन दोनों स्वस्थ रहता है। 2 दो कलाकार कहानी का कथानक तथा शीर्षक की सार्थकता	

- SELECTION:- ICSE FULL SYLLABUS**

ECONOMIC APPLICATION

Commercial Studies

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Stakeholders in Commercial organisations	Concept of stakeholders and shareholders, Internal and external stakeholders
2.	Marketing and sales	Marketing, sales, products, services, pricing.
3.	Advertising and sales promotion.	Advertising, advertising agency, social advertising media, sales promotion.



St. Stephen's School Birati

Syllabus 2026-27

4.	Consumer protection	Consumer protection, consumer exploitation, Consumer Protection Act, CCPA.
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PRE SELECTION:

SL. NO.	CONTENT	CONCEPTS
1.	Stakeholders in Commercial organisations	Concept of stakeholders and shareholders, Internal and external stakeholders
2.	E- Commerce	E-commerce, E-tailing, E-advertising, E- marketing, E-security, ERP.
3	Capital and revenue expenditure/ income	Capital and revenue expenditure, receipts, profits, losses.
4	Final accounts of Sole proprietorship.	Trading account, Profit and loss account, Balance Sheet.
5	Fundamental concepts of cost	Concept, Classification of cost on the basis of nature and behaviour.
6	Budgeting	Budget, Budgeting and forecasting, cash flow statement.
7	Sources of finance	Capital market, shares, debentures/ bonds
8	Recruitment, selection and training	Concepts of recruitment, selection and training.
9	Industrial relations, trade unions and social security.	Detailed concepts of industrial relations, trade unions and social security.
10	Logistic and insurance	Logistics, transportation, warehousing insurance

Project: Visit a business house and meet its chief executive. Find out how and what types of budgets are prepared by the house. Ask the Chief Executive the reasons for use of budgets in spite of the fact that budgets involve estimates and may have to be revised frequently due to changes in business conditions.

SELECTION:

SL. NO.	CONTENT	CONCEPTS
1	Stakeholders in Commercial organisations	Concept of stakeholders and shareholders, Internal and external stakeholders



St. Stephen's School Birati

Syllabus 2026-27

2	Marketing and sales	Marketing, sales, products, services, pricing.
3	Advertising and sales promotion.	Advertising, advertising agency, social advertising media, sales promotion.
4	Consumer protection	Consumer protection, consumer exploitation, Consumer Protection Act, CCPA.
5	E- Commerce	E-commerce, E-tailing, E-advertising, E- marketing, E-security, ERP.
6	Capital and revenue expenditure/ income	Capital and revenue expenditure, receipts, profits, losses.
7	Final accounts of Sole proprietorship.	Trading account, Profit and loss account, Balance Sheet.
8	Fundamental concepts of cost	Concept, Classification of cost on the basis of nature and behaviour.
9	Budgeting	Budget, Budgeting and forecasting, cash flow statement.
10	Sources of finance	Capital market, shares, debentures/ bonds
11	Recruitment, selection and training	Concepts of recruitment, selection and training.
12	Industrial relations, trade unions and social security.	Detailed concepts of industrial relations, trade unions and social security.
13	Logistic and insurance	Logistics, transportation, warehousing insurance
14	Banking	Types of banks, central bank, Internet banking, E-banking, ATM, debit and credit cards.
15	Government initiatives in environment protection	Eco friendly technology, environment values and ethics, Environment protection Act 1986, Central Pollution Control board.

Project: Visit a business house and meet its chief executive. Find out how and what types of budgets are prepared by the house. Ask the Chief Executive the reasons for use of budgets in spite of the fact that budgets involve estimates and may have to be revised frequently due to changes in business conditions.

St. Stephen's School Birati

Syllabus 2026-27

PHYSICAL EDUCATION

IAT:		
SL. NO.	CONTENT	CONCEPTS
1.	Human growth and Development	- Growth and development : meaning of growth and development - Difference between the growth and development - A brief understanding of the stage - Factors the influence human growth and development : Hereditary, Environmental, Gender, Nationality, Nutrition
2.	Physical Education	- Meaning of Physical Education - Objectives of Physical Education - Physical development, Psychological development, Social development, Emotional development
3.	Body Types	Endomorph, Mesomorph, Ectomorph
4.	Physical Fitness :	- Meaning of Physical Fitness and its importance - Components of Physical Fitness - Factors Affecting Physical Fitness

PRE SELECTION:		
SL. NO.	CONTENT	CONCEPTS
1.	Sports Training	- Meaning of Sports Training - Importance of Sports Training - Objectives of Sports Training
2.	Safety in Sports	- Sports related injuries - A brief understanding of the sports injuries and "First aid" - Prevention of injuries
3.	Health Education	- Meaning and importance of Health Education - Nutrition - Dietary modification for Sportsperson Calories - Meal planning guidelines for various physical activities with sample menus
4.	Careers in Physical Education	- Various career options in Physical Education: (Coach, Physical Education Teacher, Professional Sportsperson, Sports Management, Commentators, Official) - A brief understanding of the above.



St. Stephen's School Birati

Syllabus 2026-27

5.	Candidates will be required to answer questions on any two of the following team games : [Cricket, Football, Hockey, Basketball, Volleyball, Badminton]	• Knowledge of the game • Rules and Regulation of the game • Fundamental Skills and Techniques • Terminology • National and International governing bodies • National and International tournaments
	❖ PRACTICAL:	• Knowledge of the game • Rules and Regulation of the game • Fundamental Skills and Techniques
	❖ PROJECT :	• Draw standard Diagram with labels any two of the following Games (Cricket. Football, Hockey, Basketball, Volleyball, Badminton)
	INTERNAL ASSESSMENT :	• Draw standard Diagram with labels any two of the following Games (Cricket. Football, Hockey, Basketball, Volleyball, Badminton)
	SELECTION TEST	• All Syllabus