



ST. JOSEPH'S COLLEGE
HALF YEARLY SYLLABUS
2024

Class 8

English Language	<ol style="list-style-type: none">1. Adjectives and their kinds.2. Degrees of Comparison.3. Pronouns.4. Comprehension.5. Letter Writing (Formal and Informal)6. Essay Writing.
English Literature	
Prose.	<ol style="list-style-type: none">1. The Story of Louis Pasteur.2. The Taj Mahal.3. A Fight with a Bear. Part 1 and 2.4. The Man of the Island.5. Penguins at play.
Poem.	<ol style="list-style-type: none">1. Great, Wide, beautiful, Wonderful World.2. How Beautiful is the Rain.3. A Child's Dream.
Hindi	Chapters : 1/2/3/5/6/7/10 Letter Essay Comprehension Language from the language book From the literature book as well
Mathematics	<ol style="list-style-type: none">1. Rational Number2. Operations on Rational Number3. Exponents and Power4. Square and Square Roots5. Cubes and Cube Roots6. Application of Percentage7. Simple and Compound Interest8. Direct and Inverse Variation
Geography	<ol style="list-style-type: none">1. Population Dynamics2. Urbanization3. Asia: Location, physical and political features4. Asia: Climate, Natural vegetation and wildlife5. India: political and physical features
Physics	Chapter 1 Matter Chapter 2 Physical quantities and measurement Chapter 3 Force and pressure Chapter 4 Energy Chapter 5 Light energy : curved mirrors
Chemistry	<ol style="list-style-type: none">1. Matter.2. Physical and Chemical Changes.3. Elements Compounds and Mixtures.4. Atomic structures.

5. Language of Chemistry.

Biology

1. Transport of food and minerals in plants
2. Reproduction in plants
3. Reproduction in animals
4. Ecosystem

Sanskrit

Chapter :: 1/2/3/4
Exercises done in the class
(1 to 10)

History

1. Voyages, Industrial Revolution and Imperialism.
2. Decline of Mughals and Rise of Independent Kingdoms.
3. British Rise to power.
4. The Renaissance and Reformation.

Civics-

1. The Union Executive.
2. The Legislature.

Computer

1. Function of Operating System
2. Function in a Spreadsheet
3. Charts in a Spreadsheet
4. Algorithm and Flowcharts

Art

Canvas painting (Composition) from observational drawing/ reference.
Classes- Drawing and painting from still life. (Still life study from original still life arrangement).



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Class 9

English Language	<ol style="list-style-type: none">1) Composition2) Letter: Formal and Informal3) Notice and Email4) Comprehension with precis'5) Functional Grammar
English Literature Drama:	Julius Caesar: Act 1: full
Poetry	<ol style="list-style-type: none">1) The Night Mail2) Skimbleshanks3) I Remember, I Remember
Prose:	<ol style="list-style-type: none">1) Bonku Babu's Friend2) Oliver Asks for More3) The Model Millionaire
Mathematics	<ol style="list-style-type: none">1. Rational and Irrational Numbers2. Compound Interest3. Expansion4. Factorisation5. Simultaneous Linear Equations6. Quadratic equation7. Indices
Geography	<ol style="list-style-type: none">1. Latitudes and Longitudes2. Rotation and Revolution3. Earth's Structure4. Landforms of the Earth5. Rock and Rock cycle6. Volcanoes8. Earthquake9. World map
Economics (Non Maths)	<ol style="list-style-type: none">1. Definition of economics2. Basic terms and concept used in economics3. Types of economies4. Problem of an economy5. Primary sector - Agriculture6. Food security
Hindi Literature Naya rasta	Chapter : 4 to 8 Akanki Sanchay Chapter : 1 & 2

Hindi Language	Letter (Formal & Informal) Essay writing Comprehension
History and Civics Civics	Chapter 1 Our Constitution Chapter 2 Basic Features of the Constitution Chapter 3 The Fundamental Rights and Duties Chapter 4 Directive Principles of State Policy
History	Chapter 1 The Harappan Civilization Chapter 2 The Vedic Period Chapter 3 Rise of Jainism and Buddhism Chapter 4 The Mauryan Period Chapter 5 The Sangam Age Chapter 6 The Golden Age of the Guptas
Physics	Chapter 1 measurements and experimentation Chapter 2 motion in one dimension Chapter 3 laws of motion Chapter 4 pressure in fluids and atmospheric pressure Chapter 5 upthrust in fluids, Archimedes principle and floatation
Chemistry	1. Language of Chemistry. 2. Chemical changes and reactions 3. Water. 4 Atomic structure and chemical bonding.
Biology	Cell: the unit of life Tissues: Plants and Animal Tissues Unit 2: Flowering Plants The Flower Pollination and Fertilization Unit 3: Plant Physiology Seeds: Structure and Germination Respiration in plants
Biology syllabus	1. Cell: the unit of life 2. Tissues: plant and animal tissues 3. The flower 4. Pollination and fertilization 5. Seeds: structure and germination 6. Respiration in plants.
Computer Application	1. Introduction to Object Oriented Programming Concepts 2. Elementary Concepts of Objects and Classes 3. Values and Datatypes 4. Conditional Statements in Java 5. Iterative Constructs in Java
Physical Education	1-Human anatomy and physiology 2-Muscular system 3-Respiratory system
Part-B	1-football 2-Hockey 3-Basketball



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Class 10

English Language

- 1) Composition
- 2) Letter: Formal and Informal
- 3) Notice and Email
- 4) Comprehension with precis'
- 5) Functional Grammar

English Literature

Drama:

Julius Caesar: Act 3 & 4 : full

Poetry

- 1) When great trees fall
- 2) A considerable speck
- 3) Haunted houses
- 4) The power of music

Prose:

- 1) With the photographer
- 2) The elevator
- 3) The Girl who can

Mathematics

- 1.GST
- 2.Banking
- 3.Linear Inequation
- 4.Quadratic Equation
- 5.Factorization
- 6.Trigonometrical Identities
7. Trigonometric Table
- 8.Height And Distance
- 9.Matrices
- 10.Reflection

Geography

- 1.Climate of India
- 2.Soil resources
- 3.Natural vegetation
- 4.Water Resources
- 5.Mineral and Energy Resources -1
- 6.Mineral and Energy Resources -2
- 7.Agriculture - part 1
- 8.India physical map

Hindi

Literature

Naya Rasta

Chapter : 17 to 22
Akanki Sanchay
Chapter : 2 & 5

Language

Letter (Formal & Informal)
Essay writing
Comprehension

Biology

- 1.Structure of chromosomes, cell cycle and cell division
- 2.Genetics
- 3.Absorption by roots
- 4.Transpiration

5. Photosynthesis
6. Chemical coordination in plants
7. The circulatory system

- Economics (Non Maths)
1. The productive mechanism
 2. Land
 3. Labour
 4. Efficiency of labour
 5. Capital and capital formation
 6. Entrepreneur
 7. Theory of demand
 8. Elasticity of demand
 9. Theory of supply
 10. Elasticity of supply

History/Civics
History:

- 1) The First War of Independence
- 2) Factors Promoting the growth of Nationalism and Foundation of the Indian National Congress
- 3) Programmes and achievements of the Early Nationalists
- 4) The Rise of Assertive Nationalism - Partition of Bengal
- 5) Formation of Muslim League

Civics:

- 1) The Union Legislature
- 2) The Union Executive
- 3) The Prime Minister, Council of Ministers and the Cabinet

Physics

- Chapter 1 force
Chapter 2 work energy and power
Chapter 3 machines
Chapter 4 refraction of light at plane surfaces
Chapter 5 refraction through a lens
Chapter 6 spectrum
Chapter 7 Sound

Chemistry

1. Periodic table and periodic properties.
2. Analytical Chemistry.
3. Chemical bonding.
4. Acids, bases and salts.
5. Mole concepts.
6. Electrolysis.
7. Metallurgy.

Economics Application

1. Theory of demand
2. Elasticity of demand
3. Theory of supply
4. Elasticity of supply
5. Factors of production
6. Land
7. Destruction of ecosystem
8. Labour
9. Capital and capital formation.

Computer Application

1. Revision of Class IX Syllabus
2. Class as the basis of all Computation (Objects and Classes)
3. Defined Methods
4. Constructors
5. Arrays (Single Dimensional)

Physical Education	1-Human growth and Development 2-physical education 3-Body Type 4-Physical fitness
Part-B	1-football 2-Hockey 3-Basketball



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Class 12

English Language	Composition Directed Writing Proposal Writing Functional Grammar Comprehension
English Literature	Macbeth Act 3 Scene 1,2,3,4,5,6 Act4 Scene 1
Poetry:	Telephone Conversation Beethoven Death Be Not Proud
Prose:	Atithi/Guest Cookie Lady Indigo There Will Come Soft Rains
History Section A	1) Towards Independence and Partition: The Last Phase (1935-1947) 2) Establishment and Development of Indian Democracy (1947-1966) 3) India's Foreign Policy 4) Movements for Women's Rights
Section B	5) World War II 6) De- colonization in Asia and Africa
Biology	1. Reproduction in organisms 2. Sexual reproduction in flowering plants 3. Human population 4. Reproductive health 5. Principles of inheritance and variation 6. Molecular basis of inheritance 7. Origin of life 8. Evidences of theories of biological evolution.
Political science	Chapter 1 Forms of Government (Totalitarian, Authoritarian, Dictatorship, Liberal Democracy) Chapter 2 Unitary and Federal States Chapter 3 Parliamentary and Presidential form of Government Chapter 9 Indian Constitution Chapter 10 Fundamental Rights Chapter 11 Directive Principles of State Policy Chapter 12 Local Self Government Chapter 13 Democracy in India : Perspective of Challenges Faced.
Mathematics	1: Relation and Functions, 2: Inverse Trigonometric Functions 3: Matrices 4: Vectors (Chapter 1 Section B)/ 5: Application of Calculus in Commerce and Economics (Chapter 1 Section C) 6:Determinants

7: Continuity and Differentiability

Physical Education
1. Sociological aspects of Physical Education
2. Training Methods
3. Career Aspects of Physical Education

Section B
1. Football
2. Cricket

Chemistry
1. Solutions
2. Electrochemistry
3. Chemical Kinetics
4. Haloalkanes and Haloarenes
5. d- and f- block Elements

Computer Science
1. Boolean Algebra
2. Computer Hardware (Logic Gates)
3. Objects and Classes
4. Java Revision Tour
5. Primitive Values, Type Casting and Expression
6. Statements, Control Structures and Scope
7. Java Classes: An OOP perspective

Commerce:
1. Business Environment
2. Capital: Fixed and Working
3. Sources of Finance for a Joint Stock Company
4. Banking- Latest Trends
5. Management: Meaning, Nature and Importance
6. Principles of management
7. Functions of management and Coordination

Accounts:
1. Fundamentals of Partnership
2. Goodwill
3. Issue of Shares
4. Financial Statement Analysis
5. Cash Flow Statement
6. Issue of debentures
7. Redemption of Debentures

Physics
Unit 1. Electrostatics
Unit 2: Current Electricity
Unit 3: Magnetic Effects of Current and Magnetism
Unit 4: Electro Magnetic Induction and Alternating Current .
Unit 5 : Electromagnetic Waves

Economics

1. Micro Economic Theory

(i) Demand: meaning, factors affecting demand; Demand function; Law of Demand; derivation of demand curve; movement and shift of the demand curve; exceptions to the Law of Demand.

(ii) Law of Diminishing Marginal Utility, Law of Equimarginal Utility, consumer's equilibrium through utility approach (Cardinal) and indifference curve analysis (Ordinal).

(iii) Elasticity of demand: meaning, types of elasticity of demand, measurement of elasticity of demand; factors affecting elasticity of demand.

(iv) Supply: meaning; difference between stock and supply; determinants of supply; Law of Supply; movement and shift of the supply curve; elasticity of supply.

(v) Market Mechanism: Equilibrium and disequilibrium; Equilibrium price and effect of changes in demand and supply on the equilibrium price. Simple applications of tools of demand and supply.

(vi) Concept of production and production function (short run and long run production function), returns to a factor, total, average and marginal physical products; Law of Variable Proportions and its three stages.

2. Macro Economics

(i) Money and Banking Money: meaning, functions of money, supply of money.

(ii) Banks: functions of commercial bank; high powered money, credit creation by commercial banks; Central Bank: functions.

(iii) Balance of Payment and Exchange Rate

Balance of Payment - meaning, components; foreign exchange - meaning, determination of exchange rate (Fixed and Flexible).