



shiksha
PUBLIC SCHOOL

CLASS XII – SCIENCE STREAM
CBSE CURRICULUM 2026–2027

SUBJECT	CBSE 2026–27 CURRICULUM CONTENT
ENGLISH CORE (301)	Reading & Creative Writing: Unseen factual/descriptive/literary passages; notice; invitations/replies; letters; article; report. Flamingo Prose: Ch.1 The Last Lesson; Ch.2 Lost Spring; Ch.3 Deep Water; Ch.4 The Rattrap; Ch.5 Indigo; Ch.6 Poets and Pancakes; Ch.7 The Interview; Ch.8 Going Places. Flamingo Poetry: Poem 1 My Mother at Sixty-Six; Poem 2 Keeping Quiet; Poem 3 A Thing of Beauty; Poem 4 A Roadside Stand; Poem 5 Aunt Jennifer's Tigers. Vistas: Ch.1 The Third Level; Ch.2 The Tiger King; Ch.3 Journey to the End of the Earth; Ch.4 The Enemy; Ch.5 On the Face of It; Ch.6 Memories of Childhood. Internal Assessment: Listening, Speaking and Project Work.
PHYSICS (042)	Unit 1: Electrostatics Chapter 1 – Electric Charges and Fields Chapter 2 – Electrostatic Potential and Capacitance Unit II – Current Electricity Chapter 3 – Current Electricity Unit III – Magnetic Effects of Current and Magnetism Chapter 4 – Moving Charges and Magnetism Chapter 5 – Magnetism and Matter Unit IV – Electromagnetic Induction and Alternating Current Chapter 6 – Electromagnetic Induction Chapter 7 – Alternating Current Unit V – Electromagnetic Waves Chapter 8 – Electromagnetic Waves Unit VI – Optics

	Chapter 9 – Ray Optics and Optical Instruments Chapter 10 – Wave Optics Unit VII – Dual Nature of Radiation and Matter Chapter 11 – Dual Nature of Radiation and Matter Unit VIII – Atoms and Nuclei Chapter 12 – Atoms Chapter 13 – Nuclei Unit IX – Electronic Devices Chapter 14 – Semiconductor Electronics
CHEMISTRY (043)	Unit 1 Solutions: concentration terms, solubility, vapour pressure, ideal/non-ideal solutions and colligative properties. Unit 2 Electrochemistry: electrochemical cells, Nernst equation, conductance, electrolysis, batteries, fuel cells and corrosion. Unit 3 Chemical Kinetics: rate of reaction, factors affecting rate, integrated rate equations, temperature dependence and collision theory. Unit 4 d- and f-Block Elements: transition elements, lanthanoids and actinoids; important compounds and applications. Unit 5 Coordination Compounds: Werner's theory, terminology, nomenclature, isomerism, bonding and applications. Unit 6 Haloalkanes and Haloarenes: preparation, properties, reactions and uses. Unit 7 Alcohols, Phenols and Ethers: classification, preparation, properties and reactions. Unit 8 Aldehydes, Ketones and Carboxylic Acids: structure, preparation, properties and reactions. Unit 9 Amines: classification, nomenclature, preparation, properties, reactions and diazonium salts. Unit 10 Biomolecules: carbohydrates, proteins, enzymes, vitamins, nucleic acids and hormones.
MATHEMATICS (041)	Unit I: Relations and Functions Chapter 1 – Relations and Functions Chapter 2 – Inverse Trigonometric Functions Unit II – Algebra Chapter 3 – Matrices Chapter 4 – Determinants Unit III – Calculus Chapter 5 – Continuity and Differentiability Chapter 6 – Application of Derivatives Chapter 7 – Integrals Chapter 8 – Application of Integrals Chapter 9 – Differential Equations Unit IV – Vectors and Three-Dimensional Geometry

	Chapter 10 – Vector Algebra Chapter 11 – Three-Dimensional Geometry Unit V – Linear Programming Chapter 12 – Linear Programming Unit VI – Probability Chapter 13 – Probability
BIOLOGY (044)	Unit VI – Reproduction Chapter 1 – Sexual Reproduction in Flowering Plants Chapter 2 – Human Reproduction Chapter 3 – Reproductive Health Unit VII – Genetics and Evolution Chapter 4 – Principles of Inheritance and Variation Chapter 5 – Molecular Basis of Inheritance Chapter 6 – Evolution Unit VIII – Biology and Human Welfare Chapter 7 – Human Health and Disease Chapter 8 – Microbes in Human Welfare Unit IX – Biotechnology and its Applications Chapter 9 – Biotechnology – Principles and Processes Chapter 10 – Biotechnology and its Applications Unit X – Ecology and Environment Chapter 11 – Organisms and Populations Chapter 12 – Ecosystem Chapter 13 – Biodiversity and Conservation
COMPUTER SCIENCE (083)	1. Computational Thinking & Programming – II • Python revision • Functions • Exception Handling • File Handling – Text, Binary & CSV • Data Structures – Stacks • Python programs based on the above concepts 2. Computer Networks • Computer network concepts • Types of networks • Network devices • Transmission media • Network topologies • Internet, Web and related concepts • Network security 3. Database Management • Database concepts • Relational databases • SQL • SQL commands and queries • Functions and clauses • Joins • Python–MySQL connectivity

	Practical – Programming, SQL/database work, project and viva.
ARTIFICIAL INTELLIGENCE (843)	Part A – Employability Skills 1. Communication Skills – IV 2. Self-Management Skills – IV 3. ICT Skills – IV 4. Entrepreneurial Skills – IV 5. Green Skills – IV Part B – Subject-Specific Skills 1. Python Programming – II <i>Evaluated through practical work</i> 2. Data Science Methodology: An Analytic Approach to Capstone Project 3. Making Machines See – Fundamentals of Computer Vision – Image/video processing and applications 4. AI with Orange Data Mining Tool <i>Evaluated through practical work</i> 5. Introduction to Big Data and Data Analytics 6. Understanding Neural Networks 7. Generative AI – Text generation – Image generation – Audio/video generation and applications 8. Data Storytelling – Communicating insights using data and visualisation The practical/project component includes Capstone Project & documentation, practical file, lab test, and viva voce.
PSYCHOLOGY (037)	Ch.1 Variations in Psychological Attributes; Ch.2 Self and Personality; Ch.3 Meeting Life Challenges; Ch.4 Psychological Disorders; Ch.5 Therapeutic Approaches; Ch.6 Attitude and Social Cognition; Ch.7 Social Influence and Group Processes; Practical/project work.