

PKM EM SCHOOL
YEARLY SYLLABUS -2026-27
CLASS -XI (SCIENCE)

SUBJECT	PERIODIC TEST - 1	PERIODIC TEST - 2	PERIODIC TEST - 3	PRE-BOARD
CHEMISTRY	1. Some basic concepts of Chemistry 2. Structure of Atom 3. Classification of Elements & Periodicity	4. Chemical bonding & Molecular Structure 5. Thermodynamics	6. Equilibrium 7. Redox reaction 8. Organic Chemistry: Some basic Principles and Techniques (Few topics)	8. Organic Chemistry 9. Hydrocarbon PT1 + PT2 + PT3
MATHEMATICS	CH.1 Sets CH.2 Relations and Functions CH.3 Trigonometric Functions CH.4 Complex Numbers and Quadratic Equations	CH.5 Linear Inequalities CH.6 Permutations and Combinations CH.7 Binomial Theorem CH.8 Sequences and Series	CH.9 Straight Lines CH.10 Conic sections CH.11 Introduction to Three-Dimensional Geometry CH.12 Limits and Derivatives	PT- 1, PT- 2, PT- 3 and CH.13 Statistics CH.14 Probability
BIOLOGY	Ch-1 – The Living World Ch-2 – Biological Classification Ch-3 – Plant Kingdom Ch-4 – Animal Kingdom Ch-5 – Morphology of Flowering Plants Ch-6 – Anatomy of Flowering Plants	Ch-7 – Structural Organisation in Animals Ch-8 – Cell: The Unit of Life Ch-9 – Biomolecules Ch-10 – Cell Cycle and Cell Division Ch-11 – Photosynthesis in Higher Plants Ch-12 – Respiration in Plants	Ch-13 – Plant Growth and Development Ch-14 – Breathing and Exchange of Gases Ch-15 – Body Fluids and Circulation Ch-16 – Excretory Products and Their Elimination Ch-17 – Locomotion and Movement Ch-18 – Neural Control and Coordination	Ch-19 – Chemical Coordination and Integration And Syllabus of PT1, PT2 And PT3



PHYSICAL EDUCATION	1. Changing trends & careers in physical education 2. Olympic value education 3. Yoga	1. Physical Education and sports CWSN 2. Physical Fitness, health and wellness 3. Psychology and Sports	1. Test, measurement & evaluation 2. Fundamentals of Anatomy, physiology in sports 3. Fundamentals of kinesiology and biomechanics in sports 4. Training and doping in sports	Syllabus as prescribed by CBSE
PHYSICS	1. Units and Measurements 2. Motion in a Straight Line 3. Motion in a Plane 4. Laws of Motion	5. Work, Energy and Power 6. System of Particles and Rotational Motion 7. Gravitation 8. Mechanical properties of Solids	9. Mechanics, Properties of Fluids 10. Thermal properties of Matter 11. Thermodynamics 12. Kinetic Theory of Gases Oscillations and Waves	Complete Syllabus
ARTIFICIAL INTELLIGENCE	• Communication Skills – III • Self-Management Skills – III • Introduction: Artificial Intelligence for Everyone • Unlocking your Future in AI	• ICT Skills – III • Entrepreneurial Skills – III • Python Programming • Introduction to Capstone Project	• Green Skills – III • Data Literacy – Data Collection to Analysis • Machine Learning Algorithms • Leveraging Linguistics (NLP) • AI Ethics and Values	Syllabus as prescribed by CBSE
COMPUTER SCIENCE	Computer Systems & Python Basics Computer Systems: Computer Systems and Organisation, including hardware, software types, OS, Boolean logic, number systems, and encoding schemes. Python Basics: Problem-solving steps, Python fundamentals (tokens, variables, comments), and knowledge of basic data types and operators.	Programming Logic & Core Sequences: Flow of Control: Handling errors, conditional statements (if-elif-else), and iterative statements (for and while loops). Sequences: In-depth study of Strings and Lists, including indexing, slicing, and built-in methods	Data Types & Society Data Types: Tuples, Dictionaries, and an introduction to Python modules like math, random, and statistics Society: Society, Law and Ethics, covering digital footprints, cyber safety, data protection (DPR), and the IT Act.	Syllabus as prescribed by CBSE

ENGLISH	Prose: 1.The Portrait of a Lady 2. We're Not Afraid to Die.... if We Can All Be Together. Poems: 1.A Photograph 2.The Laburnum Top Supplementary: The Summer of The Beautiful White Horse Grammar: 1.Gap Filling (Tenses) 2. Question on Reordering of Sentences Writing Skills: 1.Advertisements 2.Poster Making	Prose: Discovering Tutankhamun; the Saga Continues Poems: 1.The Voice of The Rain 2.Childhood Supplementary: 1.The Address 2.Mother's Day (Poem) Grammar: 1.Gap Filling (Clauses) 2.Transformation of Sentences Writing Skills: 1.Speech Writing 2.Advertisement Reading Skills: 1.Case Based Factual Passage	Prose: 1.The Adventure 2.Silk Road Poems: 1.Father to Son Supplementary: 1.Birth 2.The Tale of Melon City Grammar: 1.Gap Filling (Tenses, Clauses) 2.Transformation of sentences Writing Skills: 1.Debate 2.Poster Making Reading Skills: 1.Unseen Passage 2. Note Making	Syllabus as prescribed by CBSE


 15/05/2026
 Principal
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