

Class 11 (Std XI) PCMB Syllabus — Maharashtra Board

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Maharashtra State Board — Standard XI (FYJC) Science. Physics, Chemistry, Mathematics and Biology (PCMB) outline.

Physics (XI)

- Units and Measurements
- Mathematical Methods
- Motion in a Plane
- Laws of Motion
- Gravitation
- Mechanical Properties of Solids
- Thermal Properties of Matter
- Sound
- Optics
- Electrostatics
- Electric Current Through Conductors
- Magnetism
- Semiconductors

Chemistry (XI)

- Some Basic Concepts of Chemistry
- Introduction to Analytical Chemistry
- Basic Analytical Techniques
- Structure of Atom
- Chemical Bonding
- Redox Reactions
- Modern Periodic Table
- Elements of Group 1, 2, 13, 14
- States of Matter (Gaseous & Liquid)
- Adsorption and Colloids
- Basic Principles of Organic Chemistry
- Hydrocarbons

Mathematics (XI)

- Angle and its Measurement

- Trigonometry I & II
- Determinants and Matrices
- Straight Line
- Circle
- Conic Sections
- Sets and Relations
- Functions
- Complex Numbers
- Sequences and Series
- Permutations and Combinations
- Methods of Induction and Binomial Theorem
- Limits
- Continuity
- Probability
- Measures of Dispersion

Biology (XI)

- Living World
- Systematics of Living Organisms
- Kingdom Plantae
- Kingdom Animalia
- Cell Structure and Organization
- Biomolecules
- Cell Division
- Plant Tissues and Anatomy
- Morphology of Flowering Plants
- Study of Animal Tissues
- Photosynthesis
- Respiration and Energy Transfer
- Human Nutrition
- Excretion and Osmoregulation