



**STAR INTERNATIONAL
SCHOOL, RANCHI**
SYLLABUS – XI (Sci.) (AY 2024-25)



MATHEMATICS

Prescribed books:

1. Mathematics Textbook for Class XI, NCERT Publications

Term I	Term II
• Sets • Relations & Functions • Trigonometric Functions • Complex Numbers and Quadratic Equations • Linear Inequalities • Permutations and Combinations • Binomial Theorem	• Sequence and Series • Straight Lines • Conic Sections • Introduction to Three-dimensional Geometry • Limits and Derivatives • Statistics • Probability

BIOLOGY

Prescribed Books:

1. Biology, Class-XI, Published by NCERT

Term I	Term II
Chapter-1: The Living World Chapter-2: Biological Classification Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Chapter-5: Morphology of Flowering Plants Chapter-6: Anatomy of Flowering Plants Chapter-7: Structural Organization in Animals Chapter-8: Cell-The Unit of Life Chapter-9: Biomolecules Chapter-10: Cell Cycle and Cell Division	Chapter-13: Photosynthesis in Higher Plants Chapter-14: Respiration in Plants Chapter-15: Plant - Growth and Development Chapter-17: Breathing and Exchange of Gases Chapter-18: Body Fluids and Circulation Chapter-19: Excretory Products and their Elimination Chapter-20: Locomotion and Movement Chapter-21: Neural Control and Coordination Chapter-22: Chemical Coordination and Integration

PHYSICS

Prescribed books:

1. Physics, Class XI, Part -I and II, Published by NCERT.
2. Physics, Class XI, Part II, Published by NCERT.

Term I	Term II
Chapter–2: Units and Measurements Chapter–3: Motion in a Straight Line Chapter–4: Motion in a Plane Chapter–5: Laws of Motion Chapter–6: Work, Energy and Power Chapter–7: System of Particles and Rotational Motion Chapter–8: Gravitation	Chapter–9: Mechanical Properties of Solids Chapter–10: Mechanical Properties of Fluids Chapter–11: Thermal Properties of Matter Chapter–12: Thermodynamics Chapter–13: Kinetic Theory Chapter–14: Oscillations Chapter–15: Waves



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CHEMISTRY

Prescribed books:

1. Chemistry Part -I, Class-XI, Published by NCERT.
2. Chemistry Part -II, Class-XI, Published by NCERT

Term I	Term II
- Unit I: Some Basic Concepts of Chemistry - Unit II: Structure of Atom - Unit III: Classification of Elements and Periodicity in Properties - Unit IV: Chemical Bonding and Molecular Structure - Unit VI: Chemical Thermodynamics	- Unit VII: Equilibrium - Unit VIII: Redox Reactions - Unit XII: Organic Chemistry -Some Basic Principles and Techniques - Unit XIII: Hydrocarbons