

1. Physics

Class 11 Topics

Physical world and measurement

Kinematics

Laws of motion

Work, energy and power

Motion of system and particles of rigid body

Gravitation

Properties of bulk matter

Thermodynamics

Behaviour of perfect gas and kinetic theory

Oscillations and waves

Class 12 Topics

Electrostatics

Current electricity

Magnetic effects of current and magnetism

Electromagnetic induction and alternating current

Electromagnetic waves

Optics

Dual nature of matter and radiation

Atoms and nuclei

Electronic devices

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2. Chemistry

Chemistry

Class 11 Topics

Class 12 Topics

Some basic concepts of Chemistry

Solid state

Structure of atoms

Solutions

Classification of elements and periodicity in properties

Electrochemistry

Chemical bonding and molecular structure

Chemical kinetics

States of matter: gases and liquids

Surface chemistry

Thermodynamics

General principles and process of isolation of e

Equilibrium

p-block elements

Redox reactions

d and f block elements

Hydrogen

Coordination compounds

s-block elements (Alkali and Alkaline earth metals)

Haloalkanes and Haloarenes

Some p-block elements

Alcohols, Phenols and Ethers

Hydrocarbons

Aldehydes, Ketones and Carboxylic acids

Environmental chemistry

Organic compounds containing nitrogen

Organic chemistry - some basic principles and techniques

Biomolecules

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Polymers

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Chemistry in everyday life

3. Biology

Class 11 Topics

Diversity in living world

Structural organization in animals and plants

Cell structure and function

Plant physiology

Human physiology

Class 12 Topics

Reproduction

Genetics and evolution

Biology and human welfare

Biotechnology and its applications

Ecology and environment

4. General English

- Synonyms/ Homonyms.
- Antonyms.
- Spot the error.
- Fill in the blanks.
- Spellings.
- Detecting Mis-spelt words.
- Idioms and phrases.
- One word substitutions.
- Shuffling of sentence parts.
- Shuffling of Sentences in a passage.
- Improvement.
- Cloze passage.
- Comprehension passage.

5. General Intelligence

- Analysis.

- Number Series.
- Observation.
- Judgment.
- Space Visualization.
- Decision Making.
- Problem Solving.
- Similarities and Differences.
- Figure Classification.
- Visual Memory.
- Relationship Concepts.
- Non-Verbal Series.
- Arithmetical Computation.
- Analytical Functions etc.