

Class XI

SCIENCE

BIOLOGY

Diversity of living organisms

- Biological classification of plant and animal kingdom

Structural organization in animals and plants

- Morphology of flowering plant
- Anatomy of flowering plants
- Structural organization in animals.

Cell- Structure and function

- Cell the unit of life
- Biomolecules
- Cell cycle and cell division.

Plant Physiology

- Transport in Plants , mineral nutrition in plants, Photosynthesis in higher plants, Respiration in Plants, Plant Growth and Development.

Human Physiology

- Digestion and Absorption, Breathing and exchange of gases, Body fluids and circulation, Excretory products and their elimination, Locomotion and Movement, Chemical Co-ordination and Integration.



CHEMISTRY

Organic chemistry

- IUPAC names and structure of organic compounds.
- Preparation of Alkanes, alkenes, alkynes, Alcohol and acids.
- Chemical properties.
- Industrial application of hydrocarbons.

Metallurgy

- Reactivity series of metals.
- Occurrence of metal in nature and their extraction.
- Alloys.

Atomic structure

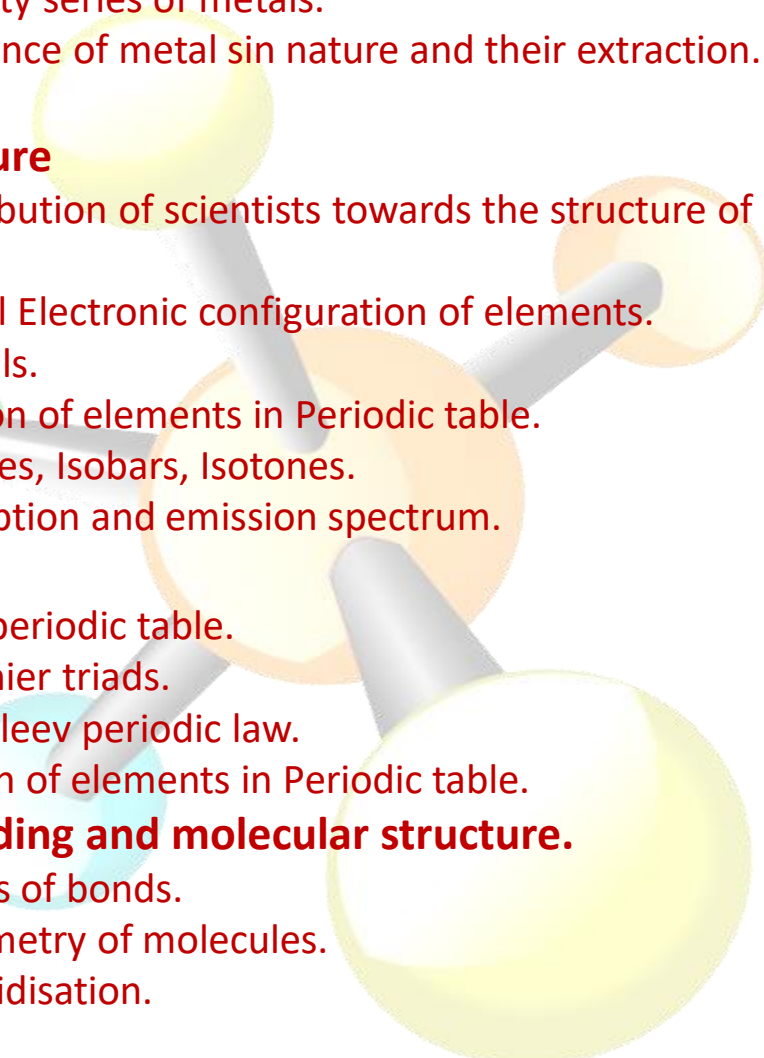
- Contribution of scientists towards the structure of atom.
- Orbital Electronic configuration of elements.
- Radicals.
- Position of elements in Periodic table.
- Isotopes, Isobars, Isotones.
- Absorption and emission spectrum.

Periodic table

Trends of periodic table.

- Dobernier triads.
- Mendeleev periodic law.
- Position of elements in Periodic table.

Chemical bonding and molecular structure.

- Types of bonds.
 - Geometry of molecules.
 - Hybridisation.
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PHYSICS

Physical world and measurement.

- Physical world.
- Units and measurement: Error Analysis.
- Dimensional Analysis.

Kinematics

- Motion in a straight line.
- Motion in a plane.

Laws of motion

- Newton's Laws of motion.
- Friction.
- Uniform circular motion.

Work, Energy and Power

- Work energy and power.

Motion of system of particles and rigid body

- Centre of Mass.
- Rotational motion of a rigid body: Moment of Inertia.

Gravitation

- Gravitation: Planets and satellites.
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