

SCIENCE
CLASS-X(2022-23)
First Term

PHYSICS

Chapter-10: Light-Reflection and Refraction.

Chapter-11: Human Eye and The Colourful World

Practicals

1. Determine the focal length of :

(a) Concave Mirror (b) Convex Lens

By obtaining the image of a distant object.

2. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

3. Tracing the path of light rays through a glass prism.

CHEMISTRY

Chapter-1: Chemical Reactions and Equations

Chapter-2: Acids, Bases and Salts

Practicals

1. Find the pH of various samples by using pH paper.
2. Studying the properties of acids and bases (HCl and NaOH)
3. Performing and observing the reactions and classifying them.

BIOLOGY

Chapter-6: Life Processes

Chapter-7: Control and Coordination

Practicals

1. To prepare a temporary mount of leaf epidermis to observe stomata.
2. To show that CO₂ is released during respiration.

SECOND TERM

PHYSICS

Chapter-12 Electricity

Chapter-13 Magnetic Effects of Electric Current

Practicals

1. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V and I.
2. Determination of the equivalent resistance of two resistors when connected in series and parallel.

CHEMISTRY

Chapter-3: Metals and Non Metals

Chapter-4: Carbon and its Compounds

Practicals

1. Study the properties of acetic acid.
2. Study the comparative cleansing capacity of a sample of soap in soft and hard water.
3. Observing the actions of Zn, Fe, Cu and Al metals on the salt solutions.

BIOLOGY

Chapter-8: How do organisms reproduce?

Chapter-9: Heredity and Evolution

Chapter-15 Our Environment

Practicals

1. To study Binary Fission in Amoeba, Budding in Yeast and Budding in Hydra.
2. Identification of different parts of an embryo of a dicot seed.