

List of Experiments - CBSE Class 10 Science

- A.** Finding the pH of the following samples by using pH paper/universal indicator: *(Unit I)*

 - Dilute Hydrochloric Acid
 - Dilute NaOH solution
 - Dilute Ethanoic Acid solution
 - Lemon juice
 - Water
 - Dilute Hydrogen Carbonate solution

B. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: *(Unit I)*

 - Litmus solution (Blue/Red)
 - Zinc metal
 - Solid sodium carbonate
- Performing and observing the following reactions and classifying them into: *(Unit I)*

 - Combination reaction
 - Decomposition reaction
 - Displacement reaction
 - Double displacement reaction
 - Action of water on quicklime
 - Action of heat on ferrous sulphate crystals
 - Iron nails kept in copper sulphate solution
 - Reaction between sodium sulphate and barium chloride solutions
- Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: *(Unit I)*

 - ZnSO₄ (aq)
 - FeSO₄ (aq)
 - CuSO₄ (aq)
 - Al₂(SO₄)₃ (aq)
 - Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.
- Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. *(Unit IV)*
- Determination of the equivalent resistance of two resistors when connected in: *(Unit IV)*

 - Series
 - Parallel
- Preparing a temporary mount of a leaf peel to show stomata. *(Unit II)*
- Experimentally show that carbon dioxide is given out during respiration. *(Unit II)*
- Study of the following properties of acetic acid (ethanoic acid): *(Unit I)*

 - Odour
 - Solubility in water
 - Effect on litmus
 - Reaction with Sodium Hydrogen Carbonate
- Study of the comparative cleaning capacity of a sample of soap in soft and hard water. *(Unit I)*
- Determination of the focal length of: *(Unit III)*

 - Concave mirror
 - Convex lens by obtaining the image of a distant object
- 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. *(Unit III)*
- Studying

 - Binary fission in *Amoeba*, and
 - Budding in *Yeast* and *Hydra* with the help of prepared slides. *(Unit II)*
- Tracing the path of the rays of light through a glass prism. *(Unit III)*
- Identification of the different parts of an embryo of a dicot seed (*pea, gram or red kidney bean*). *(Unit II)*