

**Class –X**  
**Science (086)**  
**Session : 2020-21**

**PRACTICALS**

❖ Practical should be conducted alongside the concepts taught in theory classes

**LIST OF EXPERIMENTS**

1. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with
  - a) Litmus solution (Blue/Red) **Unit-I**
  - b) Zinc metal
  - c) Solid sodium carbonate
  
2. Performing and observing the following reactions and classifying them into: **Unit-I**
  - A. Combination reaction
  - B. Decomposition reaction
  - C. Displacement reaction
  - D. Double displacement reaction
  - (i) Action of water on quicklime
  - (ii) Action of heat on ferrous sulphate crystals
  - (iii) Iron nails kept in copper sulphate solution
  - (iv) Reaction between sodium sulphate and barium chloride solutions
  
3. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:
  - i) ZnSO<sub>4</sub> (aq) ii) FeSO<sub>4</sub>(aq) iii) CuSO<sub>4</sub>(aq) iv) Al<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub>(aq) Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result. **Unit-I**
  
4. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determining its resistance. Also plotting a graph between V and I. **Unit -I**
  
5. Experimentally show that carbon dioxide is given out during respiration. **Unit-II**
  
6. Determination of the focal length of (i) Concave mirror and (ii) Convex lens by obtaining the image of a distant object. **Unit-III**
  
7. 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**
  
8. Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides. **Unit-II**
  
9. Tracing the path of the rays of light through a glass prism. **Unit-III**