

Science Experiment Guide

This guide provides step-by-step instructions for common science experiments.

Experiment 1: Photosynthesis in Plants

Materials:

- Plant leaves, iodine solution, beaker, water

Procedure:

1. Place leaf in boiling water for 2 minutes
2. Remove and place in alcohol to remove chlorophyll
3. Add iodine solution and observe color change

Observation: Blue-black color indicates presence of starch

Experiment 2: Density of Liquids

Materials: Water, oil, graduated cylinder, scale

Procedure:

1. Measure 50ml of water and record mass
2. Calculate density: $\text{Density} = \frac{\text{Mass}}{\text{Volume}}$
3. Repeat with oil and compare results