

Lab 1: Introduction to the Scientific Method

Objective: To understand the scientific method and its application in a laboratory setting.

The scientific method is a systematic approach to investigating a question or problem. It involves making observations, asking questions, forming hypotheses, conducting experiments, and analyzing the results.

In this lab, you will learn the steps of the scientific method and how to apply them to a real-world problem. You will also learn how to design and conduct an experiment.

- 1. **Observation:** You observe a phenomenon or problem that you want to investigate.
- 2. **Question:** You ask a question about the phenomenon or problem.
- 3. **Hypothesis:** You form a hypothesis, which is a tentative answer to the question.
- 4. **Experiment:** You design and conduct an experiment to test your hypothesis.
- 5. **Analysis:** You analyze the results of the experiment to see if they support your hypothesis.
- 6. **Conclusion:** You draw a conclusion based on the results of the experiment.



Conclusion:
 The results of the experiment support the hypothesis.