

BIO 101 Lab 01: Scientific Method

Objectives:

- Discuss the utilization of the Scientific Method
- Design an experimental procedure
- Identify the control group in the experiment
- Identify the independent, dependent, and control variables in the experiment
- Collect and analyze data using tables and graphs

Background:

Science is the process used to solve problems and to gain a better understanding of the natural world. Scientists are constantly looking for better and clearer answers to a wide range of questions. The basic method used to find the answers is called the **Scientific Method**. This method is based on a set of core assumptions:

- There are specific causes for observed events in the natural world
- The causes of these events can be identified
- There are patterns and rules that can be used to describe observations
- The patterns and fundamental rules of nature are universal
- Science is an ongoing process that results in an evolution of our understanding of the patterns and fundamental rules of nature

The Scientific Method is a stepwise process used to develop answers.

1. **Observation:** Something that is seen or felt with the senses
2. **Question:** How or why did an event occur?
3. **Hypothesis:** A tentative and testable answer to the question
4. **Experiment:** The recreation of a controlled event that allows the researcher to support or reject the hypothesis

The **question** formulated from the observation must be logical and answerable. **Hypotheses** developed from questions must be based on relevant information, testable, and falsifiable. **Experiments** should be designed to minimize variability, meaning only small details/variables (preferably only one) should be altered to test the hypothesis. These controlled experiments are best when only one variable is changed. Lastly experiments must be repeatable to help ensure there is no bias in the results.

While experiments are conducted the variables are measured and monitored closely. **Controlled variables** are the aspects of the experiments that remain the same through every variation of the experiment. For example, a researcher testing the effect of soil conditions on plant growth will give each plant the same amount of water, sunlight, air conditions, temperature etc. The **independent variables** are the aspects of the experiment that the researcher

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