

THE SCIENTIFIC METHOD

INTRODUCTION:

One of the things that makes a science a science is the use of a logical, orderly approach in dealing with information. This approach is called the SCIENTIFIC METHOD.

The first step in the scientific method involves making OBSERVATIONS of a behavior in a particular system. Observations can be made with any of the senses (sight, hearing, smell, touch and taste). Mechanical devices such as thermometers or balances may also be used in making observations.

The next step is to examine the observations, looking for any pattern in the behavior observed. If such a pattern is found, it is stated formally as a LAW. A law may be written in words, or it may be expressed as a mathematical equation.

The third step goes beyond simply collecting and organizing information, and involves developing a model that will explain why the observed behavior occurs. This model is called a HYPOTHESIS. A good hypothesis should not only explain the behavior already observed but also predict some behavior that has not yet been seen. This provides a way to test the hypothesis, which is the fourth step in the scientific method. If the hypothesis fails a test it must be modified or discarded. However, passing a test (or even many tests) does not prove a hypothesis - the hypothesis may still not be the correct description of the system in which the behavior has been observed. A hypothesis that has passed many tests is called a THEORY.

To review, the four steps in the scientific method are:

1. Make observations of a behavior.
2. Look for a pattern or trend in these observations; if one exists, express it in the form of a LAW.
3. Try to develop a model that accounts for the behavior. This model is a HYPOTHESIS.
4. Test the hypothesis.

In this lab exercise you are going to practice using the scientific method. You will make observations, identify any patterns, and write these as laws. You will then attempt to develop a hypothesis to explain the behavior. Finally, you will suggest ways to test your hypothesis.

DATA AND OBSERVATIONS

1. What are you investigating today?
2. Describe the object.
3. Can you collect data using the object? If so, record some data below.
4. Analyze the data and determine the average.
5. Write a hypothesis about this object?
6. Test your hypothesis. Do your observations support your hypothesis?
7. Can you develop a theory/law about this object? State it below.

Chm1045l Lab Manual Answers

Benjamin Huck, N. J. Kirk



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