Skill Builder

Use this skill sheet to help you write a lab report. You can think of a lab report as a document that tells a story about an experiment you performed. The story itself is the experiment. There is always a beginning to the story (called the Introduction) and an ending (called the Conclusions). The details you provide about this "story" help others learn from what you did. As a way to share scientific knowledge, lab reports are great contributions to our progress in understanding of how the world works.

1. What is a lab report?

A lab report is an explanation of your findings from an investigation. If your lab report is written clearly, anyone who reads your lab report will be able to understand what you were trying to learn. They will see why and how you performed your experiment.

When you tell a reader how to repeat your experiment, you are giving another person the tools to evaluate your work. It they can get data that is similar to yours and come to similar conclusions, then you have support for your ideas.

Because Sir Isaac Newton's findings from his experiments were repeatable, what started out as ideas are now scientific laws! For example, Newton's thoughts about a falling apple led to the law of universal gravitation. This law is an equation that explains why the moon and each of us experiment gravitational attraction to the Earth. Wow!

2. What are the parts of a lab report?

On a cover sheet or at the top of your report include your name, the title of the lab, the date of completion, and your lab partners' names.

The main parts of the lab report are listed below along with a description of each part.

- Research question: What are you trying to find out through this experiment?
- **Introduction:** This paragraph describes the topic you are studying and how it relates to your experiment. State your hypothesis at the end of the introduction.
- **Procedure:** This paragraph is a description of the experiment you performed to test your hypothesis. You may wish to include a sketch of the apparatus you used. Be sure to name the experimental variable and list the variables that you controlled in the experiment.
- **Results:** In this paragraph, you describe your data. Often you will include a graph. Write a short description of the data, but do not draw any conclusions in this paragraph.
- **Conclusions:** Your conclusions about your experiment are described in this part of the lab report. The conclusions paragraph describes what happened in your experiment, and whether or not your hypothesis was correct.

3. A sample lab report

Use this sample lab report as a guide for writing your own lab reports. Keep in mind that you are telling a story about something you did. Write clearly so that others can easily understand what you accomplished.

