

Arizona State University
Evaluation of Laboratory Science Courses

Name of Course: _____

Duration of Study: (full year, one semester, trimester): _____

What is the textbook title and copyright date?

Approximately how much time per week do students spend conducting hands-on laboratory experiments in this course?

Briefly describe course content. Please include a list of the laboratory experiments or projects you do that require manipulation of equipment. If the course is part of a home school or online program, please explain how lab equipment was obtained. For example: Did you purchase a lab kit? Did you use a prescribed curriculum from a program that works with home school educators? If so, which program? Were household materials used to perform experiments?

Using standard Scientific Method outlined by the following questions, describe one typical laboratory assignment associated with this course.

State the problem or concept investigated during this laboratory assignment. (Do oranges stored in a refrigerator have more Vitamin C than oranges picked fresh from a tree?)

Formulate a hypothesis for this problem using “if/then” statements. (*If* oranges picked fresh from a tree have more Vitamin C, *then* juice from these oranges will take longer to turn a starch solution blue.)

Describe the experiment you performed to prove or disprove your hypothesis. List all essential materials. Describe each step you performed in the experiment.

Describe the results of your experiment or study. Use graphs and charts where appropriate.

Explain your data or results. Give an analysis of your experiment.

Write a conclusion for your study. Was your hypothesis supported or refuted?