

The purpose of this lab is to practice using the scientific method.

1. The first step of the scientific method is to make _____ that lead to a _____.

Look at the equipment you have been given and make observations. Label each of your observations as quantitative (N) or qualitative (L).

Write a question related to extinguishing the flame of the candle using the equipment provided.

2. The second step of the scientific method is to form a _____ to answer your question.

What are three things a good hypothesis must do?

Write a hypothesis related to your question in step one.

3. The third step of the scientific method is to _____ the hypothesis by _____.

Define *variable*.

Use controlled, manipulated and responding to fill in the blanks.

The _____ variable is changed by the scientist.

The _____ variable changes as a result of the experiment.

Everything else must be a _____ variable.

Design an experiment to test your hypothesis. Identify the manipulated variable, the responding variable, and the controlled variables. Perform your experiment. Design a chart, graph, table, etc. to keep track of your data.

4. The final step in the scientific method is to make a _____ based on the results of the experiment.

When you are satisfied with your data, write a conclusion and clean up.