

Introduction to Science

1. What are the steps to science inquiry or the scientific method?
2. In a cause and effect question, what is the independent variable and dependent variable referring to? Provide 1 example.
3. What are control variables?
4. What is a hypothesis? How are the experiment and the hypothesis related? Provide an example of a hypothesis.
5. What are some questions to think about when developing a procedure?
6. Why is it important that your record-keeping be organized and neat?
7. Observations should be accurate and objective. They can qualitative or quantitative. What do these terms mean?
8. When making a graph which variable goes on the x-axis? How does a graph help in analyzing and interpreting the data? What is a trendline?
9. List three examples of common sources of error. (measuring, design)
10. Explain why the conclusion of an experiment is not always the last step in the scientific process.