

Steps of the Scientific Method

Problem

What are we testing?

Research

Look at the past work of others to see if this problem has already been tested.

Formulate a hypothesis

Identify variables and explain the expected outcome using an if/then statement.

Design the experiment

Detail the materials and procedures that will be used. Identify the control variables.

Test the hypothesis

Follow the experimental design. Make observations and collect data.

Organize / Summarize the data

Make charts and graphs that explain the collected data. Summarize all observations.

Conclusions

Share what was learned by the experiment. State any potential improvements that could be made.

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