



## The Scientific Method

The scientific method is a process for experimentation that is used to explore observations and answer questions.

Ask A Question: How, What, When, Who, Which, Why, or Where?

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Do Background Research: What do we already know about this experiment? Do some research to find out what's already been discovered that's related to your experiment.

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Construct a Hypothesis: A hypothesis is making a prediction about what will happen. The basic structure for a scientific hypothesis is:

*"If \_\_\_\_\_ (I do this), then \_\_\_\_\_ (this) \_\_\_\_\_ will happen. Write one for your experiment.*

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Test Your Hypothesis: Do an experiment based on your prediction to see whether it was accurate or not. Conduct several experiments and make sure that you only change one factor at a time, this will result in a fair test. Don't forget to record your results for each experiment.

Analyze Your Data and Form a Conclusion: What is the result of your experiment and did it match your Hypothesis?

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Communicate Your Result: Share your science project with others in a final report and/or display.