Planning Your Own Scientific Investigation

Use this form when you want to design and conduct your own investigation of a question that you and your group want to explore.

Investigative question (the question you want to investigate). Include both the changed (manipulated) variable and the measured/observed (responding) variable.

Prediction, including your reasoning. (You might write, I predict ___________ because ___________.) Include the variable you will change and what you will measure/observe.

Procedure

List the one changed (manipulated) variable:

List the variables you will keep the same or constant (controlled variables):

List the variables you will measure and/or observe (measured/observed or responding variable):

How often and/or how many times will you measure and/or observe it?

Make a table for recording the data.
Repeat the tests/procedure at least 3 times.

After you have completed the investigation and talked with your group about the results, write a conclusion. Answer the question that you have been investigating, providing the data (results of your investigation) as evidence of your thinking. Also write about whether or not the results of the investigation support your prediction. If necessary, you might also explain what you think caused inconclusive or inconsistent data in your results (consider the variables in your tests).

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