Name:_____ Period:_____ Date:_____

Experimental Design Plan: *First Draft*

Use the following outline to plan your investigation.

Materials **you will use:**

Now decide on the variables, question, and hypothesis you will investigate!

Independent Variable:_____

Dependent Variable:_____

Scientific Question (Purpose):_____

_____

Hypothesis:_____

_____

Group Members	Roles (Responsibilities during Lab)

Protocol

Now create a numbered, step by step process of EXACTLY what you plan to do in order to test your hypothesis. *It should be so specific that someone NOT in your group can follow the steps and perform your experiment.*

Name:_____ Period:_____ Date:_____

Data Table:

Design a data table that you will use to collect your observations/measurements during the experiment. Be sure to include the appropriate number of columns for the trials you plan to perform.

Graph

What kind of graph would be the best choice for your data? _____

When you graph, don't forget DETAILS!! Draw a sketch of your graph below:

Analysis and Conclusion

On a separate sheet of paper, analyze your graph (describe the trends in data). Based on the graph, write a conclusion statement that either supports or rejects your hypothesis. (It's OK if your hypothesis was incorrect!) Be sure to use data (actually numbers!) in your conclusion. What were the errors/ bias in your experiment? How could you have improved your experiment? *You should be answering your purpose question for the reader!*