Inquiry Lab Report Name _____

Date ___/___/___ Period _____

Forming the Question and Hypothesis: (See Inquiry Lab Guide)

For a "4" you must write a specific hypothesis that can be tested using data from an investigation.
For a "4" you include complete background information (science ideas) related to the hypothesis.

Question and Introduction (include a "hook" to interest the reader) **:**

Background: (Include the main ideas about your topic and relevant science terms.)

Hypothesis: What do you predict will happen? (be specific; focus on the question)

Designing the Investigation: (See Inquiry Lab Guide)

For a "4" you must write down detailed procedures (including variables) that can be easily followed.
For a "4" you must design a plan to appropriately collect data that is relevant to your hypothesis.

Manipulated Variable (mv): _____
(List the levels or categories of your mv):

Categories/levels: _____ _____ _____ _____

The control (choose one of the above categories or levels): _____

Constants: Looking at your procedure, what will always stay the same?_____

_____

Number of trials: (How many times did you test your rv?) _____

Responding Variable (rv): What kind of data are you going to collect?

_____ Unit of measurement: ____

- Describe the kinds of observations you will try to make:

_____

Materials: What do you need to complete your experiment? (a complete list of supplies including amounts and sizes that you will use: _____

_____

_____

Procedure: How will you do the experiment? (detailed steps and diagrams; attach a paper if needed):

Collecting and Presenting Data: (See Inquiry Lab Guide)

For a "4" you must record data according to your plan on organized & understandable data tables including units.
For a "4" you transform your data into a mean (or percent or total, etc.) Display it on the correct type of graph.

Data Table: (attach a paper as needed)

Graph- (graph only the means, percent, totals, etc.; attach a paper as needed):

Observations (things you noticed that can't be written as numbers; attach a paper as needed)**.**

Analyzing and Interpreting Results: (See Inquiry Lab Guide)

For a "4" you must use relevant results to show whether the evidence supports or rejects your hypothesis.
For a "4" you must clearly communicate possible mistakes showing how these might affect the results.
For a "4" you must suggest changes or further investigations based on your analysis of the results.

What did you find out? (Restate your hypothesis; then use graph numbers to support or reject it.)

Why did it happen? (Use main ideas and terms from your background to explain patterns in your data.)

How confident are you? (Discuss limitations and errors. Describe specific improvements.)

Ending: (Tell why your findings are important. Describe a follow-up experiment. Come to a conclusion.)