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| **Title:** State your testable question.  It must clearly describe what you were trying to find out. |
| **Introduction:** (Describe the Independent Variable - What you changed and the Dependent Variable - What you measured.  Include the reason for doing the lab, what you observed in class before doing the lab and any related research you found.)* Reason for Lab:
* Pre Observations:
* Research and Background Information:
* Sources:
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| **Hypothesis:** (State what you predicted would happen in the experiment.  Why did you think that would happen?)    |
| **Experimental Design:**1. List of materials used:2. Step-by-step directions on how to do the lab *exactly* as you did it. (In paragraph form- not numbered or bulleted!)3. Pictures of the Lab set-up (attach to this sheet if necessary)4. Variables:* Independent:
* Dependent:
* Control:
* Constants:
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| **Data:** (Description of Qualitative & Quantitative data)1. Qualitative Observations (observations of what happened in the experiment.)

 2. Data Table for Quantitative data (data, charts, numbers) (Attach if necessary.) |
| **Discussion:** Using complete sentences, answer the following questions on a separate page* What happened? Restate the problem, hypothesis, and results.
* Was your hypothesis supported or not? Explain how your results supported or failed to support your hypothesis. (Use *specific* data in your explanation.)
* Why did this happen? - Explain why your experiment turned out this way (you may need to do a little research for this!)

Conclude:1. List any factors that may have caused errors.
* Do you think these errors changed your results significantly?  Why or why not?
1. How would you have improved the experiment? Do you have suggestions for related experiments?
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