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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: |
| **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: |
| **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? |