The Lab Report Format
(The Scientific Method)

1) **Hypothesis**: A short statement that says *what* is going to happen and *why*. The more specific the better!

2) **Procedure**: Instructions on how to perform the experiment. Write the procedure so that the experiment can be "reproducible." This means: so that another person can perform the experiment exactly the way you did just by reading the instructions.

3) **Observations**: Record what you observe. Include data tables and graphs of your data in this section. Also, include any changes you made to your experiment and unexpected events that occurred.

4) **Conclusions**: Analyze what you observed. Answer whether or not your observations proved or disproved the hypothesis and why.

**Title of Lab**: ____________________________________________

**Hypothesis**: ____________________________________________

**Procedure**:  
1. ____________________________________________
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2. ____________________________________________
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3. ____________________________________________
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4. ____________________________________________
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6. ____________________________________________
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7. ____________________________________________
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The Lab Report Format
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Observations:
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✓ Attach your graph to this page.

✓ Draw any data tables or calculations in the space below.

✓ Draw a picture or diagram in the space below.
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**Answer the following questions.** These questions will help you answer the question: was my experiment a controlled experiment?

1. Was the squirt gun shot from the same height every time? If not, how could this affect the results?

2. Was the squirt gun shot at the same angle every time? If not, how could this affect the results?

3. Did the squirt gun have the same amount of water in it every time? If not, how could this affect the results?

4. Did the same person shoot the squirt gun every time? If not, how could this affect the results?

5. As you moved back did you move up a hill? How would this affect your results?

6. Were there any other factors that could have affected your “controls?”
Write a conclusion. Answer these questions in your conclusion.

1) **Restate** your hypothesis. Did your **results** support your **hypothesis** or disprove your hypothesis? Why?

2) Can you say with **absolute certainty** that your results supported or disproved your hypothesis? Why?

3) Use your answers to the questions on page 3 to help you conclude whether or not you designed and performed a **controlled experiment**.

4) Was your experiment "**controlled**?" Why or why not?

5) Did something go wrong with your experiment?

6) Did you perform enough **trials**?

7) What changes could you make to your experiment in order to get **better results** that would give you more certainty in proving or disproving your hypothesis?

Conclusions: __________________________________________________________

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(attach extra pages)