

Date Received:

Lab # \_\_\_\_\_

Name \_\_\_\_\_

Title: \_\_\_\_\_ (center on page)

### I. Pre-lab

Problem/Purpose:

This is the question you are trying to answer with your experiment. This will often be written in the form of a question, but sometimes may be written in sentence format.

Hypothesis:

Make a prediction based on the problem/purpose. ***This is always in the form of a statement that you think might be an answer to your problem.*** Always try to give a reason why you think it might be the answer. Remember your hypothesis must be testable. Write your statement using the If: Then: Because format.

Example: If I study for my science test, then I will earn a good grade, because I will be prepared for the test.

Experiment Planning:

- a) What is the Independent Variable? (Remember – this is what you change)
- b) What is the Dependent Variable? (This is what changes. The data you collect is on the dependent variable).
- c) Which variables do you need to hold constant? (List them all.)
- d) How big will your sample size be? How many trials will you do?

### II. Materials

Write a **list** of the things that you are using in your experiment. Be sure to include the correct quantities.

### III. Procedure

Briefly describe what you did in the laboratory. This is an **explanation** of how you tested the question. This should be a numbered list of steps. Someone who does not know what to do should be able to follow the steps of your procedure and get your results.

### IV. Data and Observations (Results)

Communicate what happened in your experiment. This often means a combination of writing, drawing, tables, charts, photographs, or some other means of clear communication.

## V. Conclusion

Use the RECALL format. This last section should be written in paragraph format. A person should be able to get the **BIG** idea of the experiment just from reading the conclusion. **DO NOT WRITE OUT THE LETTERS. DO FOLLOW THE FORMAT.**

- RE = Restate the problem or purpose of the experiment. This should be a brief summary of what you did in your experiment.
- C = Summarize your results (What happened?) Be sure to check your hypothesis! Do your results **support** or **not support** your hypothesis? Accept or reject your hypothesis providing an explanation and supporting data from the lab to justify your answer.
- A = Analyze your results (Why do you think it happened?) Incorporate any “End of Lab/Analysis” questions into this paragraph.
- L = Report any lapses (mistakes, problems, accidents) that might have affected your results.
- L = How much confidence do you have in your results? What are some factors or errors that may have affected your results? What were some limitations of your investigation?
- L = List two concepts you have learned after doing the lab, and two new questions you now have. How does what you learned apply to a real-life situation. What related questions are you left with? What future experiments would help you understand more?

**THIS IS THE CORRECT FORMAT FOR A LAB WRITE-UP.**

**ALL LABS SHOULD BE TYPED OR PRINTED NEATLY IN PEN.**

**\*\* Typed labs will receive a two-point bonus**