

LAB WRITE-UP FORMAT

Conducting an experiment is a process with many steps. Some are done to prepare for the experiment; some are done after conducting the experiment.

LAB PREPARATION

The following steps should be completed in your lab notebook before you do the lab. It must be hand-written and will be checked before you are able to begin experimenting. This is the rough draft of your lab write-up.

Title: Describes the lab content concisely, adequately and appropriately.

Problem: May be a statement or a question. What question or problem are you trying to answer?

Hypothesis:

- **If, Then:** Must be an "if, then" statement
- **Reason:** Include a rationale (or reason) for your prediction.

Materials: List format - quantities should be listed and all measurements must be in metric.

Procedure: Step by step format (what, where, when and how much!). Describes the procedure used to gather data. It gives enough detail to allow for replication. It includes pictures/diagrams whenever necessary to clarify the experimental set-up.

WHILE CONDUCTING THE LAB

During class while you are conducting the experiment record you data in your lab notebook after your pre-lab information.

Data: Data must be arranged in charts, tables, etc.

AFTER THE EXPERIMENT

Analysis: A graph or graphic organizer that makes clearer meaning from the data. You should choose an appropriate graph that best represents the data. Choose from a bar graph, line graph or circle graph. For more information see the Skills Handbook in the back of your text book.

All Graphs should include:

1. Title
2. Labels
3. Key
4. Regular Intervals

Conclusion: It is at least 1 paragraph (5-7 sentences)

Consists of 5 parts

1. Restate the problem. Explain why you are conducting the experiment.
2. Make a statement about the hypothesis. For example, "The data supported my hypothesis" or "The data refuted my hypothesis."
3. Summary of the procedure and data. (Max length 3 sentences)
4. Concluding statement "In conclusion, yeast digest the most food in 25mL sugar mixture."
5. The Future. What changes would you make if you did the experiment again? Do the results make you want to test anything new?

Final Draft: 1-2 days after the experiment is conducted, a final draft of the lab write up will be due. It may be neatly hand-written on loose-leaf paper or typed and should include and clearly label all of the following steps:

1. Title
2. Problem
3. Hypothesis
4. Materials
5. Procedure
6. Data
7. Analysis
8. Conclusion