

Formal Lab Format Quick Reference Sheet

Lab heading Include: Name, Date, Lab Partners, Laboratory Title

Sections Headings should be included before each section of the Lab Report

Question Statement

- Take object/main point of lab and turn into an investigative question. (1-2 Sentences)

Prior Knowledge

- List of facts and definitions that were researched or discussed before the lab was conducted.
- List the formulas that are needed to perform the calculations in the lab.
- Source for all facts and equations should be cited.

Evaluation/Hypothesis

- Provide a few sentences that describe how you will attempt to solve or answer the question statement. This section should also describe how you will determine if you were successful in answering the questions.

Method /Equipment

- A list of the materials used to complete the investigation
- A numbered set of detailed instructions that describe what you did in the investigation; steps need to be descriptive enough that someone could repeat your steps exactly.
- Section should include picture or diagram of laboratory equipment setups.

Data/Observations

- Section should have a table that shows all acquired/collected/measured data produced during investigation.
All data must have proper UNITS!!!!
- A list or paragraph that describes what you observed during investigation (including photos is a great way to see exactly what occurred)

Analysis

- This section is where you show **all calculations** that were performed during the investigation to help answer the question. If one calculation is repeated multiple times, one example calculation can be shown.
- A paragraph interrupting collected data using logical reasoning should be included when necessary, depending on the investigation.(Usually required by labs without calculations)

Troubleshooting/Error analysis

- This section should always begin by stating the calculated Percent Error for results with calculations.
- The rest the rest of this section should be devoted to explaining where you believe this percent error occurred in the investigation and describe how these errors could be eliminated or minimized.
- For labs without a percent error calculation you should write a paragraph that describes any potential errors that may have occurred in the laboratory and how lab could be modified to reduce these errors.
- This section may include specific error questions that should be explained.

Conclusions/Reflections

- Restate question statement
- Make a claim about the success of answering your question statement.
- List acquired data and Analysis that prove success or failure.
- Explain how or why this data is useful in addressing the question.
- List % error and describe largest source of error involved with investigation
- Include answers to included reflection questions when included on lab sheet.
- This section may include leading questions that should be answered.

Post Lab Questions (When included)

- Retype the questions and answer completely using complete sentences.