

Lab Write-Up Guidelines

Must use a Science Notebook #77610 (ones in bookstore/market). Sorry, *no* exceptions. You may type the report but the typed pages have to be placed in the notebook with original data.

Signed data *must* be turned in with the lab - again no exceptions.

Show all calculations in lab book or report using equation editors.

Answer ALL lab questions.

When graphing make sure you: 1) Give your graphs titles, 2) Label graph axes including appropriate units, 3) Use appropriate limits so that data fills entire graph, 4) plot one graph per page, 5) All graphs must be hand drawn, 6) Draw error bars on data, 7) best fit lines should clearly have slope stated, 8) Do not connect data points (i.e. no connect-the-dots).

Failure to do any of the above will result in loss of points.

1 Intro — 1.0pt

0.5pt — Existence

0.5pt — Accuracy

This should be a paragraph stating the goal of the experiment and its significance. Explain what results you expect to see and why - any background information goes here.

2 Procedures/Data — 1.0pt

REQUIRED — Signed Data

0.5pt — Main steps including comments/details/ideas

0.5pt — Table of measurements (can be done in Excel, etc.)

Do not copy the main steps from the lab manual - put them in your own words. These main steps along with your thoughts can be written in with your data - you should note any deviations from procedure or any details here. A table of all compiled final data should be made.

3 Analysis — 6.0pt

2.0pt — Calculations

2.0pt — Graphs/Sketches

2.0pt — Error analysis

4 Conclusion/Discussion — 2.0pt

0.5pt — Existence

1.5pt — Accuracy/Relevency

A few paragraphs regarding stating your results with explanation and interpretation. Any errors should be explained in this part. Also, answer all questions from the lab in this section.