

Format of Lab Report

Cover Page:

Lab Title

Lab Number

Lab Station Number

Date

Authors' names (both last and first)

Second - Last page:

Abstract: Describe what and how theory(ies) are going to be tested or examined. Make sure to include key words and use a sentence or two. Do not use “the purpose of this lab is ...” (This is abstract, not purpose) or “To examine/ to study ...” (This is not a sentence).

Equipment: List all equipment used for the lab.

Procedure: Explain/describe how each setup is built (including a diagram on the same page without any vector or coordinate system, just setup) and what are measured including the value(s) to be tested. At the end of each setup, describe which value(s) you are testing. A reader should be able to repeat the same lab experiment by reading this section without any prior knowledge of the lab. The order of measurements described here **must** match the order of data presented in the next section.

Data: For each setup, use a table format to present data. Simple rule: whatever you measure, you write in the data as is. Do not massage any measurement.

Data Deduction: Draw a diagram with coordinate system, vectors, or whatever you need to deduce your data. Present mathematical calculations here. Leave equations as variable format as long as possible and insert actual numbers only at the end. Do not pack too many equations on one page. If you have to draw a borderline or an arrow to show your calculation or answer, you are putting too many equations, thus, messy. Reference your math textbook or physics textbook.

Summary: Present important figures in a table format so that a reader can see important measurements and results including percent errors at a glance.

Conclusion: Discuss how each result supports the theory. Discuss possible causes of errors.