

PHYSICS I LABORATORY & LAB REPORT EXPECTATIONS

LABORATORIES

You may work together on every aspect of the lab, but each student must submit an individual lab report to be graded (If duplicate lab reports are submitted, a zero will be assigned for all). Put your name and the names of your partner(s) on your lab report. Writing lab reports is **time-consuming** – PLAN ACCORDINGLY. Lab reports **will not be accepted** after their designated due date.

The following parts are required to receive an acceptable mark on your lab reports:

1. APPROPRIATE LAB TECHNIQUE
 - a. Predictions
 - i. Students must show their predictions in their **Lab Notebook**
 - ii. An unacceptable mark will be for (a) not including predictions, (b) messy writing, (c) incoherent, and (d) disorganized.
 - b. Procedures
 - i. Students must follow all appropriate lab procedures
 - ii. Points will be lost for (a) using improper procedures, (b) behaving in an unsafe manner, (c) not cooperating with lab partners, and (d) not fully participating in the lab activity.
 - c. Measurements
 - i. Students must properly record all measurements in their **Lab Notebook**
 - ii. Points will be lost for (a) not recording measurements, (b) not including proper units, (c) lack of attention to significant figures, (d) messy writing, (e) incoherent, and (f) disorganized.
 - d. LAB NOTEBOOK SIGN-OFF
2. LAB REPORTS
 - a. Your Name and the Names of Your Lab Partner(s)
 - b. Title
 - i. Students must provide a title for the lab activity.
 - ii. Points will be lost for (a) not including an appropriate title for the lab activity, (b) not being typed, (c) incoherent, and (d) disorganized.
 - c. Purpose
 - i. Students must state the purpose of the lab activity.
 - ii. Points will be lost for (a) not including the purpose of the lab activity, (b) not being typed, (c) incoherent, and (d) disorganized.
 - d. Predictions
 - i. Students must show their predictions.
 - ii. Points will be lost for (a) not including predictions, (b) not being typed, (c) incoherent, and (d) disorganized.
 - e. Materials
 - i. Students must show all necessary materials.

- ii. Points will be lost for (a) not including all appropriate materials, (b) not being typed, (c) incoherent, and (d) disorganized.
- f. Procedures
 - i. Students must show all procedures.
 - ii. Points will be lost for (a) not including all appropriate procedures, (b) not being typed, (c) incoherent, and (d) disorganized.
- g. Data
 - i. Students must show all data.
 - ii. Points will be lost for (a) not recording measurements, (b) not including proper units, (c) lack of attention to significant figures, (d) not being typed, (e) incoherent, and (f) disorganized.
- h. Graphs
 - i. Students must construct proper graphical representations of data.
 - ii. Points will be lost for (a) not constructing graphs, (b) incorrect graphs, (c) “connecting the dots”, (d) reversed or improperly sized axes, (e) too few data points, (f) not labeling axis, (g) not including proper units, (h) not including titles, (i) messy writing, (j) incoherent, and (k) disorganized.
- i. Calculations
 - i. Students must show all calculations.
 - ii. Points will be lost for (a) not showing calculations, (b) incorrect calculations, (c) improper or lack of units, (d) lack of attention to significant figures, (e) messy writing for equations and formulas, (f) numeric data not being typed, (g) incoherent, and (h) disorganized.
- j. Results / Conclusions
 - i. Students must either come close to the correct answer or have reasonable explanations for why their results were incorrect and compare their results to their predictions.
 - ii. Points will be lost for (a) not commenting on reasons for incorrect results, (b) not explaining possible sources of error, (c) not comparing their results to their predictions, (d) not being typed, (e) incoherent, and (f) disorganized.
- k. Questions
 - i. Students must provide complete answers to all questions
 - ii. Points will be lost for (a) not answering the questions completely, (b) incorrect answers, (c) not writing in coherent and complete sentences where appropriate, (d) not being typed, and (e) disorganized.