

2 Weight Lab (sessions 2&3 or 3&4)

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- Due No Due Date
- Points 50
- Submitting a file upload
- File Types pdf and docx
- Available until Dec 8 at 11:59p.m.

Choose one of the 2 weight labs, and do it in either Sessions 2&3 or Sessions 3&4.

Sign-up for the lab will be during Session 1.

The report is due at 11:59pm on the Tuesday 7 days after your second lab session for this lab (Session 3 or Session 4).

2-Weight Lab Report (1)

Criteria	Ratings			Pts
Introduction	2 pts Full Marks Physics and background information required to understand the experiment are well explained in students' own words.	1 pts Partial Marks Some physics and background information required to understand the experiment are not well explained.	0 pts No Marks Physics and background information required to understand the experiment are not well explained.	2 pts
Experimental Setup and Technique	4 pts Full Marks Description of the experiment setup is complete and clear and in students' own words.	2 pts Partial Marks Description of the experiment setup and technique is incomplete.	0 pts No Marks Description of the experiment setup and technique is missing.	4 pts
Raw Data	4 pts Full Marks Required raw data are collected, clearly recorded and have reasonable values, units and significant figures.	2 pts Partial Marks Raw data are insufficiently presented, or some data or units or significant figures are wrong.	0 pts No Marks Majority of results of measurements are wrong.	4 pts
Uncertainty of Direct Measurements	4 pts Full Marks Uncertainty of direct measurements is present and correct.	2 pts Partial Marks Uncertainty of some measurements is wrong or missing.	0 pts No Marks Uncertainty of direct measurements is wrong or missing.	4 pts
Sources of Uncertainties	4 pts Full Marks Analysis of sources of uncertainties is complete.	2 pts Partial Marks Analysis of some sources of uncertainties is missing.	0 pts No Marks Analysis of sources of uncertainties is missing.	4 pts
Data Analysis and Calculations	4 pts Full Marks There is complete analysis of measured data. It is clear that the	2 pts Partial Marks Analysis of measured quantities is present, but incomplete.	0 pts No Marks Analysis of measured quantities is missing or wrong.	4 pts

Criteria	Ratings			Pts
	students understand the trends seen in the data.			
Figures and Diagrams	4 pts Full Marks Figures and diagrams are present and include correct captions, notation, units and labels, and error bars.	2 pts Partial Marks Some but not all figures and diagrams are present and/or not include correct caption, or notation, or units, or labels, or error bars.	0 pts No Marks Majority of figures and/or diagrams are missing.	4 pts
Curve Fitting	4 pts Full Marks Fitting parameters with their uncertainties and at least two criteria of goodness of fit are present and correct.	2 pts Partial Marks Some fitting parameters or their uncertainties or criteria of goodness of fit are missing or wrong.	0 pts No Marks Curve fitting is missing or wrong or shows no parameters, no uncertainties of the parameters and no goodness of fit criteria.	4 pts
Propagation of Uncertainty	4 pts Full Marks Propagation of uncertainties is present and correct.	2 pts Partial Marks Some of results of uncertainty propagation is missing or wrong.	0 pts No Marks Propagation of uncertainties is missing or wrong.	4 pts
Results	4 pts Full Marks Final results are clear and complete.	2 pts Partial Marks Final results are somewhat unclear or incomplete.	0 pts No Marks Final results are unclear and incomplete.	4 pts
Discussion	6 pts Full Marks Discussion of results and responses to all in-lab questions are present and correct.	3 pts Partial Marks Some discussion of results and/or responses to in-lab questions are missing or misinterpreted.	0 pts No Marks Discussion of results and/or responses to in-lab questions are missing or misinterpreted.	6 pts
Overall Presentation	6 pts Full Marks	4 pts Partial Marks	0 pts No Marks	6 pts

Criteria	Ratings			Pts
	Report is well-organized and clear.	Report is partially well-organized and somewhat unclear.	Report is poorly organized and unclear.	
Total Points: 50				