Checklist for Lab Reports

Your Abstract should:	
☐ Summarize the question you were seeking to answer	
☐ Briefly describe the method used to answer the question	
□ Present your quantitative results with uncertainties	
□ Mention what your results imply	
Your Introduction should:	
□ Describe what question your experiment is supposed to answer	
□ Explain why answering this question interesting and/or important	
□ Brief summarize the experimental method used	
Your Theory section should:	
□ Start with the basic defining equations	
□ Show all algebraic steps that aren't obvious	
□ Describe any assumptions or approximations made	
□ Display each equation on separate lines with an equation number	
Your Procedure section should:	
☐ List and/or describe the equipment	
☐ Include a sketch or schematic diagram of the setup	
□ Describe all measurements, roughly in order	
□ Describe anything done to reduce experimental uncertainty	
□ Discuss any modifications to procedure in the handout	
Your Analysis section should:	
□ Briefly describe the data	
□ Include unlinearized graphs of the raw data	
☐ Include linearized graphs of data, if appropriate	
□ Refer to the graphs in the text	
☐ Explain how you calculated the slope and intercept of any linear graphs	
☐ Show the calculation of any quantities derived from slope or intercept	
□ Show calculations of all uncertainties	
□ Discuss consistency with any theoretical predictions	
□ Discuss the results and their implications	
Your Conclusions should:	
□ Review the basic question addressed	
□ Report quantitative results with uncertainties	
☐ Summarize the implications of your results	
Your graphs should have:	
☐ Axes scaled so that the data is shown in as much detail as possible	
□ Descriptive labels on the axes, including units	
□ Data points that are clearly plotted, including uncertainty bars	
☐ An appropriate title and a figure number if it is in a report	
Your writing should:	
☐ Use correct spelling, punctuation, and grammar	
☐ Use complete sentences, especially when including equations	
☐ Be clear, vivid, and concise	
□ Be typeset so that the report is legible and easy to read	

Collaboration in the writing of the lab report is not acceptable. Reports that have identical or near identical sections will be considered copies and will receive grades of zero.