

Report Rubric

Section	Table 1:			
	50-40 pts	40-30 pts	30-20 pts	20-0 pts
<p>Introduction Answers the question "What theory/hypothesis is being tested?"</p>	<ul style="list-style-type: none"> Answers the question "What theory/hypothesis is being tested?" sufficiently that a person who did not perform the experiment would understand. Gives enough background so that the report makes sense as a stand-alone document. Tells the reader what your theory/hypothesis predicts for the outcome of your experiment. 	<ul style="list-style-type: none"> Answers the question "What theory/hypothesis is being tested?" sufficiently that a person who was part of your experiment group would understand. Gives enough background so that the experiment report makes sense to someone who knows the experiment topic well. 	<ul style="list-style-type: none"> Mentions what the experiment is about. Gives some background. 	<ul style="list-style-type: none"> It is difficult to tell from the introduction what the experiment is about. Little or no background provided.
<p>Experimental Setup Answers the question "What did you do?"</p>	<ul style="list-style-type: none"> This section answers the question "What did you do?" sufficiently so a non-expert can understand what was done. Describe the entire procedure and setup, indicating any deviations from your plan and explaining why those deviations were necessary. All uncertainties associated with measurements were reported. Where appropriate, a figure has been used to describe the experimental setup. The figure has a detailed caption. 	<ul style="list-style-type: none"> This section answers the question "What did you do?" sufficiently so your experiment partner could understand what was done. Tells where you deviated from the plan Some of the uncertainties associated with measurements were reported. Where appropriate, a figure has been used to describe the experimental setup. The figure has a caption that is lacking detail. 	<ul style="list-style-type: none"> Major points of the procedure are listed Uncertainties associated with measurements were not reported. No figure was used to describe the experimental setup. 	<ul style="list-style-type: none"> It is difficult to tell what you did from your description

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Table 1: (Continued)

Section	50-40 pts	40-30 pts	30-20 pts	20-0 pts
<p>Results and Analysis Answers the question "What did you measure?" and "What analysis did you perform?"</p>	<ul style="list-style-type: none"> • Each measured value is given with units. • Each measured value is given with a good estimate of uncertainty. • The data is presented in a way that is easy for the reader to find and read. Plots and tables have detailed captions and plots have axes labels and titles. • Calculations made with measured values are clear and thorough, with any mathematical equations being given and discussed. • Uncertainty on calculated values has been performed correctly with good mathematical detail. 	<ul style="list-style-type: none"> • Each measured value is given with units. • Each value is given with an estimate of uncertainty. • Presentation of data using tables/plots is present but quality could be better. No captioning of figures and/or plots without axes labels and titles. • Few details provided for calculations made. • Uncertainty on calculated values stated without mathematical details. 	<ul style="list-style-type: none"> • Measured values are given but units are missing. • No figures/tables to present data or very poorly crafted figures. • Uncertainty analysis is missing or severely lacking. 	<ul style="list-style-type: none"> • It is not clear what you measured or what your analysis was.
<p>Conclusion Answers the question "Was the experiment successful?"</p>	<ul style="list-style-type: none"> • There is a clear discussion of whether the experiment supported or falsified the theory. • Where appropriate, this discussion includes a comparison of the percent error and fractional uncertainty. • If there were difficulties, they are discussed here. • There is a statement of what you learned from this experiment. Note any problems and how you would resolve them if you were to redo this experiment. 	<ul style="list-style-type: none"> • There is a general discussion of accuracy (often with percent errors quoted). • There is some mention of whether the predictive theory is supported. • Problems are noted and how you would resolve them if you were to redo this experiment is discussed. 	<ul style="list-style-type: none"> • There is no comparison of the percent error and fractional uncertainty. • There is a statement of what you learned from this experiment. 	<ul style="list-style-type: none"> • There is no outcome of the accuracy of the experiment. • There is no comparison of fractional uncertainty and percent error. • There is no clear conclusion about the predictive theory. • There is little mention of what was learned.
<p>Grammar Did you use proper punctuation, spelling, and grammar?</p>	<ul style="list-style-type: none"> • No spelling errors. • No grammar errors. • No punctuation errors. 	<ul style="list-style-type: none"> • Very few spelling errors. • Very few punctuation errors. • No grammar errors. 	<ul style="list-style-type: none"> • Lots of spelling errors. • Lots of punctuation errors. • Very few grammar errors. 	<ul style="list-style-type: none"> • Lot of spelling errors. • Lot of punctuation errors. • Lot of grammar errors.