Proposal Rubric

		Table 1:		
Section	50-40 pts	40-30 pts	30-20 pts	20-0 pts
Statement of Problem Answers the question "What hypothesis do you plan to test?"	 There is a short discussion about the physics involved in your proposed experiment. The purpose of the experiment is clearly stated. Your theory/hypothesis is clearly stated, using mathematical equations when necessary. 	 Answers the question "What hypothesis do you plan to test?" sufficiently that a person who was part of your experiment group would understand. Gives enough background so that the proposal makes sense to someone who knows the experiment topic well. 	Mentions what the experiment is about.Gives some background but little detail.	 It is difficult to tell from the intro- duction what the experiment is about. Little or no background provided.
Procedures Answers the question "What will the experiment look like?"	 This section answers the question "What do you plan to do?" sufficiently so a non-expert can understand what was done. Describes the entire procedure and setup in detail. Describes in detail the data that will be collected. A simple figure has been used to describe the experimental setup. The figure has a detailed caption. Describes how uncertainty will be measured and/or calculated. 	 This section answers the question "What did you do?" sufficiently so your experiment partner could understand what was done. Describes the entire procedure and setup but lacks some detail. A figure has been included but lacks detail (it's not a very helpful graphic) Uncertainty has been mentioned but its not clear how these calculations will look. 	 Major points of the procedure are omitted No mention of uncertainties in your proposal. No figure was used to descibe the experimental setup. 	• It is difficult to tell what you plan to do from your description
Proposed Analysis Answers the question "What will I do with the data to prove my hypothesis?"	 A detailed description of the analysis is given. Any needed mathematical equations/derivations have been performed as part of the analysis. There are no mathematical mistakes in your reasoning. Your proposed analysis will directly lead to proving or disproving the hypothesis in question. 	 The description of the analysis lacks detail. Mathematical analysis is lacking in detail and clarity. There are no mathematical mistakes in your reasoning. Your proposed analysis will directly lead to proving or disproving the hypothesis in question. 	 The description of the analysis lacks detail. Mathematical analysis is lacking in detail and clarity. There are flaws in your mathematical reasoning. Your proposed analysis does not lead to a result that will prove/disprove your hypothesis. 	• It is not clear that you have a good plan for your analysis.

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Section	50-40 pts	40-30 pts	30-20 pts	20-0 pts
Originality/Rigor/Rele How original is your experiment? Does the difficulty level meet expectations?	 vance The experiment that was chosen is very unique. The difficulty level is appropriate for the class. 	Some may find your results interesting but many will not.The difficultly level was below the appropriate level for the class.	 Few will find your results interest- ing or relevant. The difficultly level was far below the appropriate level for the class. 	• The proposed experiment is far below the difficulty and original- ity standards.
Grammar Did you use proper punctuation, spelling, and grammar?	No spelling errors.No grammar errors.No punctuation errors.	Very few spelling errors.Very few punctuation errors.No grammar errors.	Lots of spelling errors.Lots of punctuation errors.Very few grammar errors.	Lot of spelling errors.Lot of punctuation errors.Lot of grammar errors.

Table 1: (Continued)