

Project Author ID #: _____
 Grader ID #: _____

Physics Peer Review Rubric

Score _____

Category	Excellent (6 pts.)	Admirable (5 pts.)	Acceptable (4 pts.)	Amateur (3 pts.)
Question and Variable Analysis Paragraph	Question is stated with variables in question matching those in graph and conclusion. Alternatively an explanation is given as to how the question variables can be linked to those in graph and conclusion. The IV, DV and major CVs of experiment are correctly identified and an explanation is provided as to how the IV is changed, the DV is measured and CVs are kept constant during experiment.	Paragraph does not fulfill one of descriptors in excellent category.	Paragraph does not fulfill two of descriptors in excellent category.	Paragraph does not fulfill three of descriptors in excellent category or grammatical errors make it difficult to read or experiment described will not answer the question given or the paragraph is handwritten.
Procedure	Procedure includes complete materials list, steps written in SEE format and labeled diagram showing the experiment being performed. The materials list includes all items necessary to complete experiment. All steps, except repeats, state what is to be done (statement), how to do it (explanation) and what to expect if the step is done correctly (expectation). The diagram is clearly labeled. All of this is done in a manner so the experiment can be repeated.	Procedure does not fulfill one of descriptors in excellent category.	Procedure does not fulfill two of descriptors in excellent category.	Procedure does not fulfill three of descriptors in excellent category or is written in manner that does not allow the experiment to be repeated or is handwritten.
Results	Results include data table and graph with error bars showing a minimum of 3 data points. The table has each column labeled with the variable name and units. A sample calculation is shown for each calculated quantity including the equation used, substitution and the answer. Graphs have the independent variable on the horizontal axis and the dependent variable on the vertical axis. Axes are labeled with the variable, units and a consistent scale. The data points are shown on the graph and a reasonable trend line is drawn.	Graph missing one of descriptors listed in excellent category	Graph is missing two of descriptors listed in excellent category	Graph is missing three of descriptors listed in excellent category

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Conclusion	A reasonable conclusion is drawn, supported and the confidence in the conclusion is discussed consistent with the data presented in the experiment. The conclusion should state whether a direct, inverse or no relationship exist between the IV and DV of the experiment. If either of the first two, the conclusion should also state whether the relationship is linear or nonlinear. The trends of the variables in the table and the shape of the graph should both be used to support the conclusion.	Conclusion does not fulfill one of descriptors of excellent category.	Conclusion does not fulfill two of descriptors of excellent category.	Conclusion does not fulfill three of descriptors of excellent category or is not consistent with the data presented or is hand written.
Repeatability of Experiment (Does it Work?)	Grader's data is within 10% of the data shown by the experiment's designer.	Grader's data has same shape and trend but data points more than 10 % away from data points shown by experiment's designer.	Grader's data shows only same trend or same shape when compared to data shown by experiment's designer.	Grader's data shows opposite or no trend when compared to data shown by experiment's designer.

Data Points Collected During Testing:

Data Table:

Graph: