



Physics Rubric for Common Lab Assessments

Composition

_____	Title: Present and posed as a question if appropriate? (eg: How does length of the string affect the period of pendulum ?)	_____ / 5pts
_____	Statement of Purpose:	_____ / 5 pts
_____	Background Information:	
_____	The student demonstrated research on the variables in the Lab?	_____ / 20pts
_____	Resources were cited within the text	_____ / 5 pts
_____	Hypothesis:	_____ / 20pts
_____	The student used an “If...(Indep Variable),then...(Dep. Variable)” format as appropriate? (eg: If the length of the string for a pendulum increases then the period or time for one complete cycle will increase.	
_____	The hypothesis answers the question posed in the title?	
_____	Materials: Are present and in a list format	_____ / 5 pts
_____	Procedure: Is present and in a numbered list	_____ / 10pts
_____	Results See other categories	
_____	Discussion See other categories	
_____	Works Cited Works cited in MLA format	_____ / 5 pts
_____	Proper Sequence (Title, Purpose, Background, etc)	_____ / 5 pts
_____	Mechanics of Technical Writing	
_____	Used 3 rd Person, Past Tense writing style (The student received the following results from the Experiment)	_____ / 10pts
_____	Grammar, Spelling and Sentence Structure Conventions	_____ / 10pts

Results

Results (Data, Calculations, and Graphs):

Data Table Format

_____	Table is numbered and has a descriptive title	<u> </u> / 5pts
_____	Labels are attached to each column	<u> </u> / 5pts
_____	Units are attached to each column	<u> </u> / 5pts
_____	Overall neatness of the data table	<u> </u> / 5pts

Calculations

_____	The student demonstrated the use of appropriate equations?	<u> </u> / 5 pts
_____	An acceptable mathematical answer was obtained?	<u> </u> / 5 pts
_____	All numbers have the correct units attached?	<u> </u> / 5 pts

Data Description

_____	Data were fully and accurately recorded	<u> </u> / 10pts
_____	Observations were objectively described in paragraph form and/or the data were reported in words immediately following the data table?	<u> </u> / 20pts

Graphing

_____	Graph title is present and formatted properly	<u> </u> / 5 pts
_____	eg: "Effect of the Independent Variable on the Dependent Variable"	
_____	Independent on the X axis, Dependent Variable on the Y axis	<u> </u> /5 pts
_____	Axes are labeled and units correctly identified	<u> </u> / 5 pts
_____	Data are accurately plotted on the graph paper	<u> </u> / 5 pts
_____	The scale is ruled accurately for the data	<u> </u> / 5 pts
_____	The appropriate type of graph was used	<u> </u> / 5 pts
_____	Overall neatness of the graph	<u> </u> / 5 pts

Discussion

Discussion

_____	Restated the hypothesis	<u> </u> / 5 pts
_____	Stated whether the hypothesis was supported or refuted	<u> </u> / 5 pts
_____	Used data to support or refute the hypothesis	<u> </u> / 40 pts

Errors and Recommendations

_____	Identified the errors and their sources	<u> </u> /10 pts
_____	How might the perceived errors have affected the results?	<u> </u> /10 pts
_____	How might these errors have been eliminated?	<u> </u> / 5 pts
_____	What experimentation may be the next logical step?	<u> </u> / 5 pts

Concluding Paragraph

_____	Summarized the results of this lab activity in several sentences	<u> </u> / 20 pts
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