

Rubric for Evaluation of Physics Lab Exercise (Fall 2008)

Student _____ Evaluator _____ overall score ____

Attribute	1 - Not Acceptable	2 - Below Expectations	3 - Meets Expectations	4 - Exceeds Expectations	Score
Experimental Method					
Understanding of the measurement technique	Measurements made in a fundamentally wrong manner	Some conceptual errors in measurement taking	Measurements done properly	Innovative and proper measurement technique	
Setup of apparatus	Apparatus set up in a non-functional manner	Apparatus set up will cause data errors	Apparatus properly set up	Apparatus enhanced for better precision	
Lab report					
Reports detailed enough to allow duplication of results by another	Errors in documentation of apparatus	Error in documentation of procedures	Documentation complete and correct	Report warns of difficulties and gives alternatives	
Reports logically coherent and sequential	Conditions for data and/or graphs not stated. Unclear report	All data present, but not in sequence. Must search for items	Data presented clearly following each procedure	Data presented clearly along with excellent narrative	
Reports include all required data	Required data not taken or not reported	Data points poorly chosen or missing	All required data taken and reported	Measurements beyond requirements made and reported	

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Critical evaluation of findings	Blind acceptance of clearly defective results	Recognizes defective results but does not know what to do	Recognizes defective results and figures out the cause	Recognizes defective results and eliminates the cause	
Correct data reduction	Data not reduced	Data reduced improperly or incompletely	Data reduced correctly	Extra data taken and reduced correctly	
Ability to recognize main sources of error & uncertainty	Not understood	Errors in understanding	Clear understanding		
Correlation between data and theory	Not done	Done poorly or incompletely	Complete and done well	Qualitative accounting for differences	
Ability to draw proper conclusions from lab	Conclusions not drawn	Incorrect conclusions drawn	Correct conclusions drawn	Correct conclusions correlated to other material	
Spelling and grammar	Many errors	Several errors	No more than two errors	No errors	
Computer use					
For data-taking, data analysis and plotting.	Not done	Done incorrectly	Done correctly and completely		