Student:	Grade: /	
Experiment:		
Common Abstract Errors		
Purpose		
☐ Purpose refers to the lab manual or other outside information		
☐ Purpose is incorrect (the correct purpose is almost always "to measure")		
Equipment & Procedure		
☐ Abstract lists the equipment rather than describing it		
☐ Procedure is too detailed		
☐ Procedure is insufficiently detailed or refers to the lab manual		
☐ Procedure does not reflect what you actually did		
☐ You accepted measurements that are not believable		
Analysis & Uncertainties		
☐ Abstract doesn't state why a plot was made		
☐ Abstract blames or credits a plot for making a decision		
☐ Abstract blames or credits Excel for making a decision		
☐ Result is computed incorrectly		
☐ Uncertainty is computed incorrectly		
Results & Conclusions		
☐ Numeric result has incorrect significant figures		
☐ Numeric result has bad units		
☐ Numeric result uses "E" or '^' notation (scientific notation must be	e in the form $(1.23 \pm 0.04) \times 10^{-2}$ )	
☐ Conclusion blames "human error" or the equivalent		
☐ Conclusion doesn't state the primary source of error (what improv	*	
$\square$ The stated primary source of error was already accounted for, so it	t can't still affect the results	
Mechanical		
☐ Abstract has spelling and/or capitalization errors		
☐ Abstract has grammar errors (such as run-on sentences, missing ve	erbs, missing nouns)	
☐ Abstract has tense errors (every part should be in past tense)		
☐ Abstract uses future tenses like "would" or "could" inappropriately	у	
☐ Abstract uses a pronoun inappropriately (usually, you don't say wl		
$\square$ Abstract uses an article incorrectly ("a" and "the" mean different t		
Abstract has poor word choice (usually, a word doesn't mean wha	t you think it does, or is too fancy)	
☐ Abstract is not sufficiently concise		
☐ Abstract contains forbidden elements (such as pictures or equation	is)	

Comments:

Student:	Grade: /	
Experiment:		
Logbook & Excel Grading Checklist		
Overall		
☐ The logbook is the correct quad-ruled, hard bound notebook		
$\square$ All pages are numbered, on both sides, including pages that you haven't used		
☐ Student's name and contact information are on the cover		
$\square$ Pages 1 and 2 (Not the inside cover!), at a minimum, are reserved for the table of contents		
☐ Table of contents is complete for all completed labs		
☐ Logbook has no torn-out pages		
Preparatory Work		
☐ Pre-Lab quiz work is recorded in the logbook		
☐ Addresses main ideas, not just answers to questions		
☐ Main ideas are summarized for easy access		
Lab Work & Effort		
☐ Recorded lab partner's name and contact info		
☐ Recorded all <i>original</i> measurements ( <i>before</i> making any calcul	lations or conversions)	
☐ Recorded all necessary quantities		
☐ Repeated measurements that were obviously incorrect		
☐ Uses appropriate symbols for each quantity (including equation	ns on plots)	
Analysis & Uncertainties		
☐ Has a copy of relevant plots		
☐ Relates results from plots (e.g., slopes) to basic equations (i.e.,	, understands purpose of each plot)	
☐ Presents algebraic representations of all uncertainties		
Clarity & Presentation		
☐ Mistakes, although crossed out with a single line, are still legible		
☐ Includes complete, clear, labeled drawing of the experiment without extraneous detail		
☐ Includes a summary table with all relevant quantities		
☐ Summary includes units and uncertainties		
☐ Provides sufficient description (procedure) so that someone els	se could repeat the experiment without the	
assistance of the lab manual or any other external reference		
☐ Data, analyses, etc. are not crammed into too small a space or i	in illogical order	
☐ All numerical information is labeled (i.e., not just floating num	nbers without context)	
☐ Includes an original copy of appropriate abstract		
Excel		
☐ Recorded all <i>original</i> measurements ( <i>before</i> making any calcul	lations or unit conversions)	
$\square$ Uses only Excel <b>equations</b> for <i>all</i> other cells? (that is, you may never enter any value from a calculator)		
☐ Each measured value is entered only once		
☐ Includes labels and units		
☐ Worksheet includes all partners' names and the date that the experiment was performed		
☐ Plots are formatted properly (uses template, has proper labels,	etc.)	