

Sample Grading Rubrics

Formal report evaluation sheet

Student: _____

Lab: _____

Score	Max	Section	Comments
	3	Abstract Summary of work Final results & uncertainty Appropriate length and information	
	6	Introduction Motivation for measurement Theory behind experiment with appropriate refs Introduction to equations that will be used Context of previous work, if applicable	
	3	Experimental procedure Summary of technique including reference to published procedure Instrumentation and chemicals used Description of modifications to standard procedure Sketch with sufficient detail and labels, if appropriate	
	17	Results (& data) Use of tables and figures to present data and results Description of results in text with refs to tables and figures Description of methods used to calculate results. Quality of results Correct calculation of results Any rejection of data? If so, with adequate explanation? Error analysis – propagation of errors method and/or statistical analysis, including basis for uncertainty estimates in measured values	
	7	Discussion Evaluation of reliability of data & results (use unc. analyses) Identification of major sources of error and their effect on results Comparison of results with literature values, theory, and/or class results as appropriate Discussion of significance of results - any trends observed, etc.? Conclusions and future directions (suggestions for improvements, possible further experiments/explorations)	
	4	References Literature references properly cited in the text References are primary or well-accepted secondary sources ACS style used for list of references at the end of the report At least one primary source cited - intro or discussion section	
	4	Written mechanics: spelling, grammar, and style	
	6	Appendices Lab notebook pages with original data Sample calculations for results Sample calculations for error analysis Detailed spreadsheet for calculations	
	50	Total	