

	Rubric for Lab reports	
Section		
Title + Abstract	Does it:	
(10 pts total)	Briefly state the motivation and give context for the work (one-two sentences)?	
	Include problem statement/statement of work (~one sentence)?	
	Include statement of methodology and results (with errors, if applicable)?	
	Include relevance of results to your field, other disciplines, or general public?	
	Does the title accurately represent the work done?	
Figures	Do they:	
(15 pts total)	Have readable axes, labels, and units?	
	Have captions with correct amount of content and proper citations?	
	Is all text big enough to read?	
	Are figures referenced in order in text?	
	Do they clearly present data/results?	
	Are the figures well designed?	
	Are all necessary figures included?	
	Do they have titles? (Figures in papers should not.)	

Uncertainty			
5 pts		Is it reported?	
		Does it makes sense?	
		Has the author identified biggest source of uncertainty?	
		Are significant figures used appropriately?	
Organization/format			
5 pts		Are all sections represented?	
		Is the format correct?	
		Are there spaces after units?	
Clarity/grammar			
5 pts			
References		Are they the correct format in the text and reference section?	
5pts			

SECTIONS			
Introduction			
10 pts		Does it put the work in a broader context?	
		Does it include a summary of the experimental approach?	
		Does it include (summary of) relevant physics, with equations, if applicable?	
		Does it state the importance of the work?	
Methods (calibration)			
10 pts		Is there a detailed experimental procedure?	
		Are any data and measurement taking procedures included?	
		Describes main components and how they work.	
		What features are essential to measurement; which are most important signal processing steps?	
		Detailed diagram of setup	
		Were calibrations included if necessary?	
		Do NOT include: theory, motivation, results, discussion	

Data			
		Narrative describing the results shown in tables and graphs	
		Specific conditions under which data was collected (not in methods)	
		Data is clearly and concisely shown	
Analysis			
		Describes how data was analyzed	
		Show relevant equations	
		Identify dominant sources of error (systematic and statistical); describe methodology of error analysis and propagation of uncertainties	
Results			
		Describe results + results of error analysis	
Data+Analysis+Results = 25 pts total			

Discussion			
		Compare to expected results	
		Explain relevance/significance of results	
		Comment on limitations	
		Suggest improvements	
Conclusion			
		Summarize experimental approach, primary result, why anyone should care	
Discussion + Conclusion = 10 pts total			