## Checklist for Formal Reports

Abstract – Does your abstract:	
	state the purpose of experiment?
	summarize key experimental results?
	where possible, compare experimental results to theoretical results?
Introduction – Does your introduction:	
	provide a context for the experiment, including appropriate references?
	clearly explain how your experiment fits within the broader context of the course's three main topics (i.e. thermodynamics, equilibria, and kinetics)?
	explain why the experimental approach you used is suitable and briefly outline any relevant theory? <sup>1</sup>
	clearly state the goal(s) of your experiment
Procedure – Does your procedure:	
	avoid reading as though it is a list or as a timeline?
	provide only essential details?
	omit numerical information that is not critical or that will be included with the results and conclusions?
Results and Conclusion – Are your results and conclusions:	
	presented in a logically structured manner?
	supported by tables and figures, as appropriate?
	clearly stated and, where appropriate, compared to theoretical or expected results?
	supported by an analysis of reasonable experimental errors?
Miscellaneous – Have you:	
	checked to see that information is not repeated in different sections of your report?
	discussed each table and figure in your report?
	carefully checked your spelling and grammar?
	ensured that there is enough information included in your report to verify your results and conclusions?
	paid attention to significant figures and units?
	properly referenced the work of others?

<sup>&</sup>lt;sup>1</sup> Alternatively, the relevant theory may be developed in the results and conclusions section.

Figures – For each figure, did you:	
	properly number the figure and include an informative caption?
	choose an appropriate scale for each axis?
	set the background area to white?
	remove gridlines unless they are critical to interpolating the data?
	properly labeled the axes (including units)?
	ensure that multiply data sets are easily and clearly identified? (note: do not include a legend if the figure contains only one data set)
	remove connecting lines between data points (unless such lines are critical to following trends when displaying multiple data sets)?
	(if necessary) ensure that your data points are not obscured by the inclusion of a regression line?
Tables – For each table, did you:	
	properly number the table and include an informative title?
	include all relevant measurements and final results?
	exclude unnecessary information, such as intermediate calculations?
	properly labeled the rows and/or columns (including units)?
	use appropriate significant figures?