

# Lab Report Grading Rubric

## Grading Criteria

<b>Objective</b> 10%	<p>The objective should be <b>concise</b> and should not go into detail regarding the background theory or include any equations.</p> <p>Correctness (states clearly the <b>scientific</b> concept tested and the key parameters measured).</p>
<b>Methods</b> 15%	<p>Appropriate size (less than 1 page of text – excluding figures etc.).</p> <p>Should not be written in “steps” or be a copy of the lab manual procedure. Students should explain in their own words what they did.</p> <p>Includes relevant equations.</p> <p>Correctness (describes the experiment in its entirety without unnecessary details and demonstrates that the student has a clear understanding of the experimental procedure).</p>
<b>Data</b> 20%	<p>Units included everywhere.</p> <p>Significant figures are paid attention to.</p> <p>Errors and uncertainties included everywhere.</p> <p>Neatly organized, concise and complete presentation of raw data. No new data should be introduced later on.</p> <p>Correctness of graphs (labels, units, titles, equations etc.).</p>
<b>Analysis</b> 20%	<p>Calculations are performed correctly. Includes one full sample calculation for all parts of the experiment.</p> <p>The discussion is relevant and captures all of the key concepts of the experiment (addresses at least all of the questions of the Discussion section in the manual).</p>
<b>Error</b> 15%	<p>Correct error propagation (including sample calculations).</p> <p>Error discussion (correct sources of error mentioned, sufficient discussion on how these sources affect results and identification of the dominant error source).</p>
<b>Conclusion</b> 10%	<p>Should be concise and tie back to the goals of the objective.</p> <p>Summarizes all key results (with numbers where necessary) and discusses major problems encountered (if any).</p>
<b>Organization</b> 10%	<p>Sections, graphs, equations, tables and any relevant items should be properly <b>labelled</b> and/or <b>numbered</b>.</p> <p><b>Clarity</b> and <b>coherence</b>. The lab report should be neat, concise, coherent, clear and complete.</p>