



## Laboratory Rubric

Along with these items in the laboratory report you will need a *Title, Purpose/Hypothesis, Materials and Procedure* for each laboratory (Unless otherwise stated by your instructor). These items will be grouped for an overall value of 3 points. Please refer to the [Laboratory Report Format](#) for all required pieces of a laboratory report.

	3- Excellent	2- Good	1- Poor
<b>Data</b>	<ul style="list-style-type: none"> <li>▪ Data was collected and recorded correctly</li> <li>▪ Qualitative <b>and</b> Quantitative data present</li> <li>▪ Data table, including units, neatly and legibly in laboratory report</li> </ul>	<ul style="list-style-type: none"> <li>▪ Data was collected and recorded correctly</li> <li>▪ Qualitative <b>or</b> Quantitative data present</li> <li>▪ Displayed in a table/chart with units</li> </ul>	<ul style="list-style-type: none"> <li>▪ Data was collected poorly or incorrectly</li> <li>▪ Quantitative data present only (Qualitative data missing)</li> <li>▪ Data not displayed in a table/chart and missing units or labels</li> </ul>
<b>Graph(s)*</b>	<ul style="list-style-type: none"> <li>▪ Graph has both axes labeled with units</li> <li>▪ Title present</li> <li>▪ Uniform increments for each axis</li> <li>▪ Proper type of graph chosen for the data collected</li> <li>▪ Graph is legible</li> </ul>	<ul style="list-style-type: none"> <li>▪ Graph has both axes labeled</li> <li>▪ Title not present</li> <li>▪ Uniform increments for axes</li> <li>▪ Proper type of graph chosen for the data collected</li> <li>▪ Graph is legible</li> </ul>	<ul style="list-style-type: none"> <li>▪ Graph has both axes labeled</li> <li>▪ Title not present</li> <li>▪ Increments for axes not uniform</li> <li>▪ Improper type of graph chosen for the data collected</li> <li>▪ Graph is unreadable</li> </ul>
<b>Analysis/ Calculations (Point Values Will Vary)</b>	<ul style="list-style-type: none"> <li>▪ All questions are answered fully with complete sentences</li> <li>▪ All calculations performed are shown with proper units</li> <li>▪ Calculations are performed properly</li> </ul>	<ul style="list-style-type: none"> <li>▪ All questions are answered fully with complete sentences</li> <li>▪ All calculations are shown (units may be missing)</li> <li>▪ 80% of calculations are performed properly.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Some questions are answered fully with complete sentences</li> <li>▪ Answer present with no calculations shown</li> <li>▪ Less than 70% of calculations are performed properly</li> </ul>
<b>Sources of Error</b>	<ul style="list-style-type: none"> <li>▪ Three sources of error</li> <li>▪ Excellent explanation as to how the source of error would affect the data with specific examples listed</li> <li>▪ Explicit explanation of actual errors which occurred in lab and how it affected the data</li> </ul>	<ul style="list-style-type: none"> <li>▪ Three sources of error</li> <li>▪ Good explanation as to how the source of error would affect the data</li> <li>▪ Explanation of actual errors which occurred in lab and how it affected the data</li> </ul>	<ul style="list-style-type: none"> <li>▪ Three sources of error</li> <li>▪ No explanation as to how the source of error would affect the data</li> <li>▪ No explanation of actual errors which occurred in lab and how it affected the data</li> </ul>
<b>Conclusion</b>	<ul style="list-style-type: none"> <li>▪ Clear, concise paragraph relating analysis of the data back to the hypothesis/purpose</li> <li>▪ Data and analysis used to explain any undesired outcomes of the experiment</li> <li>▪ "I" statements not present</li> </ul>	<ul style="list-style-type: none"> <li>▪ Concise paragraph relating some of the analysis of the data back to the hypothesis/purpose</li> <li>▪ Data and analysis used to explain any undesired outcomes of the experiment</li> <li>▪ "I" statements not present</li> </ul>	<ul style="list-style-type: none"> <li>▪ Vague paragraph not relating the analysis of the data back to the hypothesis/purpose</li> <li>▪ Data and analysis not used to explain any undesired outcomes of the experiment</li> <li>▪ "I" statements present</li> </ul>

\* Not all laboratory reports require this section to be present.