



## Physics Lab Report Rubric

Criteria	1	2	3	4	5
<b>Purpose</b>	<ul style="list-style-type: none"> <li>• Purpose is not identified</li> <li>• Relevant variables are not described</li> </ul>	<ul style="list-style-type: none"> <li>• Purpose is somewhat vague</li> <li>• Relevant variables are not described</li> </ul>	<ul style="list-style-type: none"> <li>• Purpose is identified</li> <li>• Relevant variables are described in somewhat unclear manner</li> </ul>	<ul style="list-style-type: none"> <li>• Purpose is identified</li> <li>• Relevant variables are described</li> </ul>	<ul style="list-style-type: none"> <li>• Purpose is clearly identified</li> <li>• Relevant variables are described</li> </ul>
<b>Hypothesis (optional)</b>	<ul style="list-style-type: none"> <li>• Predicted results and hypothesized relationship between variables not stated</li> </ul>	<ul style="list-style-type: none"> <li>• Predicted results and hypothesized relationship between variables are unclear</li> </ul>	<ul style="list-style-type: none"> <li>• Predicted results and hypothesized relationship between variables stated and appear reasonable</li> </ul>	<ul style="list-style-type: none"> <li>• Predicted results and hypothesized relationship between variables stated</li> </ul>	<ul style="list-style-type: none"> <li>• Predicted results and hypothesized relationship between variables clearly stated and reasonable</li> </ul>
<b>Materials (optional)</b>	<ul style="list-style-type: none"> <li>• There is not a list of the necessary lab materials</li> </ul>	<ul style="list-style-type: none"> <li>• Most lab materials included</li> </ul>	<ul style="list-style-type: none"> <li>• All necessary lab materials included but not listed in any particular order</li> </ul>	<ul style="list-style-type: none"> <li>• All necessary lab materials included and listed</li> </ul>	<ul style="list-style-type: none"> <li>• All necessary lab materials included and listed in an organized manner</li> </ul>
<b>Procedure (optional)</b>	<ul style="list-style-type: none"> <li>• Procedures are not listed</li> </ul>	<ul style="list-style-type: none"> <li>• Procedures are listed but not in clear steps</li> </ul>	<ul style="list-style-type: none"> <li>• Procedures are listed in clear steps but not numbered and/or in complete sentences</li> </ul>	<ul style="list-style-type: none"> <li>• Procedures are listed in clear steps</li> <li>• Each step is numbered and in a complete sentence</li> </ul>	<ul style="list-style-type: none"> <li>• Procedures are listed in clear steps</li> <li>• Each step is numbered and in a complete sentence</li> <li>• Diagrams are included to describe the set-up</li> </ul>
<b>Data</b>	<ul style="list-style-type: none"> <li>• Data is not represented or is not accurate</li> </ul>	<ul style="list-style-type: none"> <li>• Data lacks precision</li> <li>• Greater than 20% difference with accepted values</li> </ul>	<ul style="list-style-type: none"> <li>• Good representation of the data using tables and/or graphs</li> <li>• Less than 15% difference with accepted values</li> <li>• Precision is acceptable</li> </ul>	<ul style="list-style-type: none"> <li>• Accurate representation of the data using tables and/or graphs</li> <li>• Data is fairly precise</li> <li>• Less than 10% difference with accepted values</li> </ul>	<ul style="list-style-type: none"> <li>• Accurate representation of the data using tables and/or graphs</li> <li>• Graphs and tables are labeled and titled</li> <li>• Less than 5% difference with accepted values</li> <li>• Data is precise</li> </ul>
<b>Analysis</b>	<ul style="list-style-type: none"> <li>• Trends/patterns are not analyzed</li> <li>• Questions are not answered</li> <li>• Analysis is not relevant</li> </ul>	<ul style="list-style-type: none"> <li>• Trends/patterns are not analyzed</li> <li>• Answers to questions are incomplete</li> <li>• Analysis is inconsistent</li> </ul>	<ul style="list-style-type: none"> <li>• Trends/patterns are logically analyzed for the most part</li> <li>• Questions are answered in complete sentences</li> <li>• Analysis is general</li> </ul>	<ul style="list-style-type: none"> <li>• Trends/patterns are logically analyzed</li> <li>• Questions are answered in complete sentences</li> <li>• Analysis is thoughtful</li> </ul>	<ul style="list-style-type: none"> <li>• Trends/patterns are logically analyzed</li> <li>• Questions are answered thoroughly and in complete sentences</li> <li>• Analysis is insightful</li> </ul>
<b>Error Analysis (optional)</b>	<ul style="list-style-type: none"> <li>• There is no discussion of experimental errors</li> </ul>	<ul style="list-style-type: none"> <li>• Some experimental errors are identified</li> </ul>	<ul style="list-style-type: none"> <li>• Experimental errors and their effects are discussed</li> </ul>	<ul style="list-style-type: none"> <li>• Experimental errors are determined</li> <li>• Their effects are discussed</li> </ul>	<ul style="list-style-type: none"> <li>• Experimental errors are determined</li> <li>• Their effect and ways to reduce errors are discussed</li> </ul>
<b>Conclusion</b>	<ul style="list-style-type: none"> <li>• No conclusion was included or shows little effort and reflection on the lab</li> </ul>	<ul style="list-style-type: none"> <li>• A statement of the results is incomplete with little reflection on the lab</li> </ul>	<ul style="list-style-type: none"> <li>• A statement of the results of the lab indicates whether results support the hypothesis</li> </ul>	<ul style="list-style-type: none"> <li>• Accurate statement of the results of the lab indicates whether results support the hypothesis</li> <li>• Possible sources of error identified</li> </ul>	<ul style="list-style-type: none"> <li>• Accurate statement of the results of lab indicates whether results support hypothesis</li> <li>• Possible sources of error and what was learned from the lab discussed</li> </ul>