



### Lab Report Format Rubric

Category		Excellent	Good	Needs Improvement
Lab Title		Clearly uses IV, DV and subject in a complete sentence	Missing one component (IV, DV or subject) in a complete sentence	Missing multiple components
Background	Theory and Formulas	Provides focused rationale for the investigation by using the most relevant background science knowledge.	Provides little background information that is relevant to the lab.	Provides background information that is inappropriate or substantially incorrect.
	Main Purpose/ Goal	The purpose of the lab or the question to be answered during the lab is concisely identified and stated in 1-2 sentences.	The purpose of the lab or the question to be answered during the lab is identified, but is stated in a somewhat unclear manner.	The purpose of the lab or the question to be answered during the lab is erroneous or irrelevant.
Hypothesis		Hypothesis is stated in an "If..and..then" statement showing the cause and effect relationship between the IV and DV. It is testable and yields numeric data.	Hypothesis is stated in an "If..and..then" statement <b>lacking</b> any of the following: 1. the cause and effect relationship between the DV and IV 2. testability 3. numeric data	Hypothesis is not stated in "if..and..then" format lacking the cause and effect relationship between the DV and IV.
Materials		Bulleted list of all materials used in lab.	List of all materials used in lab (improper format).	No materials listed.
Procedures		Procedures are listed in concise numbered steps and are in complete sentences. Procedures appear to be replicable.	Procedures are listed in a logical order, but steps are not numbered and/or are not in complete sentences. Procedures appear to be replicable.	Procedures do not accurately list the steps of the experiment. Several steps are not outlined AND there is not enough detail to replicate procedures.
Data Collection	Tables and Graphs	All tables and graphs are neat, properly labeled, and accurately supports the purpose of the lab.	Tables and graphs are lacking one of the following criteria: 1. Neat 2. Properly labeled 3. Accurately supports the purpose of the lab	Tables and graphs are incomplete or inaccurate.
	Sample Calculations	Calculations are complete and accurate, showing set up of formula, units, and significant figures.	Calculations are lacking one of the following: 1. Set-up for formula 2. Units 3. Significant figures	Calculations are lacking one of the following: 1. Set-up for formula 2. Units 3. Significant figures
Discussion Questions		All questions are correctly answered using appropriate academic vocabulary and complete sentences.	Many questions are correctly answered using appropriate academic vocabulary and complete sentences.	Some questions are correctly answered using appropriate academic vocabulary and complete sentences.
Conclusion	Results Evidence Explanations	<ul style="list-style-type: none"> <li>Conclusion begins with a clear, concise discussion of the purpose of the experiment or study.</li> <li>All of the important results are explained in relation to the purpose statement.</li> <li>The results statement includes (numerical) evidence (including averages) when appropriate.</li> <li>A clear and concise explanation of how the data supports or refutes expectations or hypotheses is given.</li> </ul>	<ul style="list-style-type: none"> <li>The purpose of the experiment or study is mentioned but is not clear, concise, and accurate.</li> <li>Most of the important results are explained in relation to the purpose statement.</li> <li>The results statement includes evidence that is not numerical when needed.</li> <li>Some explanation of results is given but no mention of how the data supports or refutes expectations or hypotheses.</li> </ul>	<ul style="list-style-type: none"> <li>There is no mention of the purpose or the subject of the study.</li> <li>The results of the experiment or study are not stated.</li> <li>Little evidence is given for the results of the experiment.</li> <li>Little explanation of whether the data supports or refutes expectations or hypotheses is given.</li> </ul>
	Possible Errors	At least two examples of procedural errors or uncertainties that could lead to inaccurate data are identified and explained. Discuss ways to avoid these errors in the future.	Examples of procedural errors or uncertainties are identified but no discussion of ways to avoid these errors.	Unclear examples of procedural errors or uncertainties that could lead to inaccurate data are identified and explained.
	Practical Applications	A clear, concise explanation what you learned in this lab, recommendations for follow-up experiments, and how this lab applies to life outside the classroom.	An explanation lacking one of the following: 1. What you learned in this lab 2. Recommendations for follow-up experiments 3. How this lab applies to life outside the classroom.	An explanation lacking more than one of the following: 1. What you learned in this lab 2. Recommendations for follow-up experiments, 3. How this lab applies to life outside the classroom.
Other	Spelling and Grammar	No spelling or grammatical errors. All components are written in complete sentences.	Multiple spelling or grammatical errors. Most components are written in complete sentences.	Excessive spelling and/or grammatical errors, or not written in complete sentences.
	Type and Font	Lab is typed and in a font that is easy to read.	Lab is typed but in a font that is not easy to read.	Lab is not typed and is not easy to read.