

Chemistry Laboratory Rubric: *Note: In some labs you will be graded on your results. At times, in both in a Chemistry class, in life, and when growing fruit, you must produce.*

	Beginning	Developing	Accomplished	Exemplary
Pre-Lab Basics	o Lab report <i>has not</i> demonstrated clear communication, objectives and hazardous materials assessment.	o Lab report with <i>somewhat</i> clear communication, objectives and hazardous materials assessment.	o Organized lab report with <i>mostly</i> clear communication, objectives and hazardous materials assessment.	o Organized and professional lab report with clear communication, definitive objectives and thorough hazardous materials assessment.
Procedure /Flowchart	o Lab could <i>not</i> be reproduced if procedure repeated by an outside party.	o Lab could be <i>somewhat</i> reproduced if procedure repeated by an outside party.	o Lab could be <i>mostly</i> reproduced if procedure repeated by an outside party.	o Lab would be reproduced if procedure repeated by an outside party.
Data	o Data is incomplete.	o Data is <i>somewhat</i> complete.	o Data is <i>mostly</i> complete.	o Data is complete.
Calculations	o Calculations <i>have not</i> communicated understanding of the concepts covered in this lab.	o Calculations <i>somewhat</i> communicates understanding of the concepts covered in the lab.	o Calculations <i>mostly</i> communicates understanding of the concepts covered in this lab.	o Calculations <i>clearly</i> communicates understanding of the concepts covered in this lab.
Graphs	o <i>Does not</i> demonstrate the relationship between variables.	o <i>Somewhat</i> demonstrates the relationship between variables.	o <i>Mostly</i> demonstrates the relationship between variables.	o <i>Clearly</i> demonstrates the relationship between variables.
Discussion	o Discussion questions are <i>not</i> answered completely and <i>do not</i> connect concepts explored in lab to theory.	o Discussion questions <i>somewhat</i> answered completely and <i>somewhat</i> connect concepts explored in lab to theory	o Discussion questions are <i>mostly</i> answered completely and <i>mostly</i> connect concepts explored in lab to theory.	o Discussion questions are answered completely and connect concepts explored in lab to theory
Conclusion	o Conclusion is incomplete and/or does not demonstrate an understanding of the concepts covered in this lab.	o Conclusion is complete and demonstrates <i>some</i> understanding of the concepts covered in this lab.	o Conclusion is <i>mostly</i> thorough, demonstrating an understanding of the concepts covered in this lab.	o Conclusion is <i>thorough</i> , demonstrating a <i>strong</i> understanding of the concepts covered in this lab.

<p>Pre-Lab:</p> <ul style="list-style-type: none"> includes all of the following: Subject, Unit, Name, Partner's Name, Date of Lab completion title that reflects the purpose of the lab purpose that clearly identifies objectives of the lab all materials are listed and all Hazardous Materials are listed in HEM <p>Procedure/Flowchart:</p> <ul style="list-style-type: none"> excellent organization clear and concise includes diagrams/pictures of apparatus' used throughout the lab all steps are included and flow from one step to the next <p>Data:</p> <ul style="list-style-type: none"> tables are well-organized proper sig-figs and uncertainty includes units includes label/heading multiple trials for each point if applicable 	<p>Calculations:</p> <ul style="list-style-type: none"> ordered in a stepwise fashion includes correct units calculations are free from errors <p>Graphing:</p> <ul style="list-style-type: none"> title follows x vs. y for "process being analyzed" axis labelled with units lines/curves of best fit include equation line of best fit is not "forced" through the origin <p>Discussion/Conclusion:</p> <ul style="list-style-type: none"> questions are answered completely and connect to theory all answers demonstrate a thorough understanding of the concepts <p>Conclusion:</p> <ul style="list-style-type: none"> conclusion answers purpose by comparing key results to predictions/hypothesis (supported/no supported) connects to big picture and asks new question questions and suggests new experiments
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