

Chemistry Laboratory Report Rubric

Name: _____

Experiment: _____

Total: _____

CATEGORY	Meets or Exceeds Expectations (4- 5)	Below Expectations (2-3)	Substandard (0-1)	Score
Title, Date, Names	Title is present and is descriptive of the lab. Date is recorded and accurate. Student name (1 st and last) is present as are the names of the lab team members.	The report fails to meet one of the expectations.	The report fails to meet more than one of the expectations.	_____
Abstract	The abstract clearly addresses all FIVE of the expected topics, including 1. Background 2. Statement of Purpose 3. Summary of Procedure 4. Summary of Results 5. Significance of Findings.	Abstract fails to adequately address any one of the five expected topics.	Abstract fails to adequately address any two of the five expected topics.	_____
Introduction	A cohesive, well-written summary (including the relevant reaction chemistry) of the background material pertinent to the experiment is presented, along with a clear purpose statement, brief summary of the procedure, and definitions of important terms. Appropriate literature references (if required) are cited.	Introduction is nearly complete. Contains relevant science information, but fails to provide enough background to support the experiment. Purpose statement is unclear. Summary of the procedure is too lengthy. Some Important definitions of terms are not included, or are inaccurate.	The intro does a poor job of setting the stage for what the experiment is about. Very little back-ground information is pro-vided, and/or is incorrect. Purpose statement missing or irrelevant. Summary of the procedure is incomplete or missing.	_____
Methods/ Materials	1. Procedure is written in narrative paragraph format (using past tense and passive voice). 2. Materials used are mentioned within the context of the procedure and not listed in a separate section. 3. Provides a concise, easy-to-follow description of the specific procedures followed in the lab. 4. Gives enough detail of the materials and procedure used so the experiment may be repeated by someone else. 5. The procedure is not an exhaustive description containing minute details, and omits information that can be assumed by peers.	The procedure fails to meet one of the five expectations for this section.	The procedure fails to meet most of the expectations. It may be directly copied from the lab manual, and show little attention to expectations.	_____
Results-data and analysis.	1. All data and observations are neatly organized (in tables and graphs if appropriate), with identifying titles and labels, and are easy to interpret. 2. At least one complete calculation is correctly shown for each type of calculation utilized. 3. Data and calculations are correct with regard to significant figures and units.	The results fail to meet one of the three expectations for this section. Some minor problems are evident that could still be improved.	The results fail to meet two or more of the three expectations for this section. Some data may be missing. Calculations are incorrectly solved or not shown.	_____

<p>Discussion/ Conclusion</p>	<ol style="list-style-type: none"> 1. Demonstrates a logical, coherent knowledge and understanding of the important experimental concepts. 2. The purpose of the lab is restated and an appropriate conclusion is based on the interpretation of the results. 3. Specific reference to numerical data is evident. 4. Reference is made to graphs and tables. 5. Discusses sources of error that may have contributed to discrepancies between observed and theoretical (expected). 6. Discusses and suggests improvements in the experimental procedure and possible applications for further study. 	<p>Demonstrates an understanding of the majority of important concepts.</p> <p>The discussion fails to meet one of expectations 2 through 6 for this section. Some minor problems are evident that could still be improved.</p>	<p>Does not demonstrate an understanding of the important experimental concepts, forms inaccurate conclusions and lacks overall judgment of error.</p> <p>The discussion fails to meet most of expectations 2 through 6 for this section.</p>	<p>_____</p>
<p>Mechanics</p>	<ol style="list-style-type: none"> 1. Uses the appropriate formatting (titles, captions, font, etc.) for the tables, graphs, text and drawings. 2. Is written in a scientific/technical writing style, with appropriate voice and person. 3. Is clear of spelling and grammatical errors. 4. Includes all the necessary headings for each section of the report. 	<p>The mechanics fail to meet one of expectations for this section. Some minor problems are evident that could still be improved.</p>	<p>Frequent grammatical and spelling errors evident. Writing style lacks cohesion, clarity, and fluidity.</p> <p>In general, the mechanics fail to meet most of expectations for this section.</p>	<p>_____</p>

Comments: