

### Science Lab Scoring Rubric

CATEGORY	Exceptional (4)	Satisfactory (3)	Unsatisfactory (2)	Poor (1)
<b>Introduction</b>	Your introduction clearly states the purpose of the lab and you explicitly state the variables that are to be studied.	Your introduction states the purpose of the lab and the variables to be studied.	Your introduction states the purpose of the lab, but not the variables that will be studied.	There is no introduction.
<b>Purpose</b>	Clearly defined purpose for investigation.	Basic purpose stated	Purpose not clearly stated.	No reason given for investigation
<b>Materials</b>	All materials and setup used in the experiment are clearly and accurately described. Drawings included as appropriate.	Almost all materials and the setup used in the experiment are clearly and accurately described.	Most of the materials and the setup used in the experiment are accurately described.	Many materials are described inaccurately OR are not described at all.
<b>Procedures</b>	Procedures are listed in clear steps. Each step is numbered and is a complete sentence.	Procedures are listed in a logical order, but steps are not numbered and/or are not in complete sentences.	Procedures are listed but are not in a logical order or are difficult to follow.	Procedures do not accurately list the steps of the experiment.
<b>Data</b>	Professional looking and accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled. Drawings are included as necessary and are well labeled. Data is presented in proper format, scientific notation where appropriate, proper use of significant digits, correct choice of axis on graphs.	Accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled. Drawings are included when necessary. Minor errors in data presentation in one or more of the following; scientific notation where appropriate, significant digits, choice of axis on graphs.	Accurate representation of the data in written form, but no graphs or tables are presented or multiple errors with data presentation in one or more of the following; scientific notation where appropriate, significant digits, choice of axis on graphs.	Data are not shown OR are inaccurate. Major errors in data presentation in one or more of the following; scientific notation where appropriate, significant digits, choice of axis on graphs to the point where it significantly interferes with communicating the information.
<b>Error Analysis</b>	Clear and detailed identification and description of sources of error identifying both systemic and random error. Recommends strategies to minimize sources of error. Uncertainty calculated for all data.	Identifies most sources of error and differentiates between random and systemic error. Minimal suggestions for correcting for error.	Few sources of error are identified and/or not identified as systemic or random. No suggestions on how to minimize error.	No discussion of any type of possible error.
<b>Analysis</b>	The relationship between the variables is discussed and trends/patterns logically analyzed. Predictions are made about what might happen if part of the lab were changed or how the experimental design could be changed.	The relationship between the variables is discussed and trends/patterns logically analyzed.	The relationship between the variables is discussed but no patterns, trends or predictions are made based on the data.	The relationship between the variables is not discussed.
<b>Conclusion</b>	Conclusion includes whether the findings supported the hypothesis, possible sources of error, and what was learned from the experiment.	Conclusion includes whether the findings supported the hypothesis and what was learned from the experiment.	Conclusion includes what was learned from the experiment.	No conclusion was included in the report OR shows little effort and reflection.