

**Scientific Method  
Lab Report Rubric**



	<b>Exceeds 4</b>	<b>Meets 3</b>	<b>Approaches 2</b>	<b>Falls Far Below 1</b>
<b>Problem</b>	The purpose of the lab or the question to be answered during the lab is clearly identified and stated.	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 partially identified, and 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.
<b>Hypothesis</b>	<ol style="list-style-type: none"> <li>1. Based on the actual question or problem statement</li> <li>2. Predicts the effect or lack of effect of the independent variable on the dependent variable</li> <li>3. Exact changes are specified</li> <li>4. Written in If, Then format</li> <li>5. Written as a complete sentence</li> <li>6. No spelling or grammar errors</li> <li>7. • Neat and legible</li> </ol>	5 of 6 components of quality work are present	Three components of quality work are present	Less than three components of quality work is present
<b>Materials List</b>	<ol style="list-style-type: none"> <li>1. All materials and equipment are listed</li> <li>2. Amounts or quantities are specified</li> </ol>	Materials are listed, but quantities are not specific		Sketchy list or incomplete.
<b>Procedure</b>	<ol style="list-style-type: none"> <li>1. Numbered list</li> <li>2. Complete information</li> <li>3. Independent variable identifiable</li> <li>4. Dependent variable identifiable</li> <li>5. Unit of measurement identified</li> <li>6. Explanation of measurements</li> <li>7. Repeated trials</li> </ol>	5 out of 7 components are present	4 out of 7 components are present	Less than 4 components are present

<b>Data Table</b>	<ol style="list-style-type: none"> <li>1. Column labels indicate the independent variable</li> <li>2. Column labels indicate the dependent variable</li> <li>3. Units are included in label or title</li> <li>4. Table is organized in a way that allows for the collection and analysis of data</li> <li>5. Ruler used to make lines</li> </ol>	4 out of 5 components are present	3 out of 5 components are present	Less than 3 components are present
<b>Graph</b>	<ol style="list-style-type: none"> <li>1. Appropriate title</li> <li>2. Both axes labeled with units when appropriate</li> <li>3. Appropriate number scale written along Y-axis <ol style="list-style-type: none"> <li>a. Numbers on the gridlines</li> <li>b. Numbers such that all data to be plotted</li> <li>c. Consistently scaled</li> </ol> </li> <li>4. Appropriate Category labels written along X - axis</li> <li>5. Bars are not connected <ol style="list-style-type: none"> <li>a. Evenly spread</li> </ol> </li> <li>6. All data points correctly plotted</li> </ol>	5 out of 6 components are present	4 out of 6 components are present	Less than 4 components are present
<b>Data Analysis</b>	<ol style="list-style-type: none"> <li>1. Relationship, pattern, trend, or comparison identified</li> <li>2. Complete and accurate</li> <li>3. Complete sentences used</li> </ol>	2 out of 3 components are present	1 out of 3 components are present	None Present
<b>Conclusion</b>	<p>Conclusion includes whether the findings supported the hypothesis, possible sources of error, and what was learned from the experiment. Written in paragraph form</p>	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.
<b>Totals</b>				

