

# Lab Report Rubric Advanced Topics in Biology



Name \_\_\_\_\_

Title of Experiment \_\_\_\_\_

Lab Partners \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Date Submitted \_\_\_\_\_

<b>Introduction</b> <ul style="list-style-type: none"> <li>State the hypothesis.</li> <li>Give well-defined reasons for making the hypothesis.</li> <li>Explain the biological basis of the experiment.</li> <li>Explain how the method used will produce information relevant to your hypothesis.</li> <li>State a prediction based on your hypothesis (If the hypothesis is supported, then the results will be . . .)</li> </ul>	<p>0 – 10 pts</p> <p>Score _____</p>
<b>Materials and Methods</b> <ul style="list-style-type: none"> <li>Use the appropriate style.</li> <li>Give enough detail so the reader could duplicate <b>your</b> experiment.</li> <li>State the control treatment, replication, and standardized variables that were used.</li> </ul>	<p>0 – 8 pts</p> <p>Score _____</p>
<b>Results</b> <ul style="list-style-type: none"> <li>Present the data in an appropriate format (table or graph).</li> <li>Tables and graphs numbered.</li> <li>Table columns and rows ruled and labeled.</li> <li>Label the axes of each graph completely.</li> <li>Give units of measurement where appropriate.</li> <li>Write a descriptive caption for each table and figure.</li> </ul>	<p>0 – 10 pts</p> <p>Score _____</p>
<b>Discussion</b> <ul style="list-style-type: none"> <li>State whether the hypothesis was supported or proven false by the expected results, or else state that the results were inconclusive.</li> <li><b>Cite</b> specific results that support your conclusions.</li> <li>Give the reasoning for your conclusions.</li> <li>Demonstrate that you understand the biological meaning of expected results.</li> <li>Compare the results with your predictions and explain any unexpected results.</li> <li>Compare the results to other research or information available to you.</li> <li>Give explanations for poor results (bad data) obtained.</li> <li>Discuss any weaknesses in your experimental design or problems with the execution of the experiment.</li> <li>Discuss how you might extend or improve your experiment.</li> <li>All questions posted in the lab are answered completely and accurately.</li> </ul>	<p>0 – 20 pts</p> <p>Score _____</p>
<b>References</b> <ul style="list-style-type: none"> <li>Proper format followed.</li> </ul>	<p>0 – 2 pts</p> <p>Score _____</p>
<b>TOTAL SCORE:</b>	
<u>50</u>	

Comments \_\_\_\_\_

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