

# Animal Behavior Report Rubric

Lab Report Structure	Points Possible	Points Earned
<p><b>Title</b> – needs to be specific and relate to the information and organism tested in the lab</p> <ul style="list-style-type: none"> <li>- This will be your question as a statement (Animal Behavior Lab is not an appropriate title)</li> </ul>	2	
<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Describe the purpose of the experiment in a few sentences and why you chose your variable and organism to study</li> </ul>	5	
<p><b>Experimental Design:</b> All of the following need to be labeled and underlined in the lab notebook</p> <ul style="list-style-type: none"> <li>- Question – listed and directly relates to the experimental setup</li> <li>- Hypothesis – listed as an “If, then” statement and based on the variable you tested                             <ul style="list-style-type: none"> <li>○ Also include the null hypothesis</li> </ul> </li> <li>- Variables: independent variable, dependent variable, control (if available), and constants (at least 2 constants)</li> <li>- Materials (2pts) and Safety (1pt) precautions</li> <li>- Detailed steps of Procedure (you may include a diagram of the setup as well) – steps should be written so that someone else could do your exact experiment</li> </ul>	2 4 6 3 10	
<p><b>Results:</b> All of the following need to be labeled and underlined in the lab notebook</p> <ul style="list-style-type: none"> <li>• Data Chart: completed for each trail (at least 2 trails needed)                             <ul style="list-style-type: none"> <li>• Observations: description of general observations during the experiment</li> </ul> </li> <li>• Graph: Graph of time 0 to time ____ for each variable                             <ul style="list-style-type: none"> <li>• Axes labeled and IV and DV oriented correctly (2pt), correct scale with units (4pts), appropriate title (1pt), accurate graph of data – (4pts)</li> </ul> </li> <li>• Chi-square analysis chart (all parts) with degrees of freedom, p-value listed, and accept or reject the null hypothesis                             <ul style="list-style-type: none"> <li>• Observed data will be based on your averages from your final time data</li> </ul> </li> </ul>	10 4 11 10	
<p><b>Conclusion:</b> Explain in biological terms why you saw what you saw</p> <ul style="list-style-type: none"> <li>• Paragraph:                             <ul style="list-style-type: none"> <li>- State whether your hypothesis was correct or not</li> <li>- State your results and then EXPLAIN your results. Use the following questions to guide your explanation:                                     <ul style="list-style-type: none"> <li>• If there was a preference, did your organism exhibit taxis or kinesis? Explain why</li> <li>• If there was not a preference, what could be the cause of not choosing between the 2 variables?</li> <li>• Use specific examples from the lab including your chi-squared analysis to support your ideas and be sure to relate back to the content and vocabulary discussed in class as well as any additional research that was done to understand your results</li> </ul> </li> </ul> </li> <li>• Paragraph:                             <ul style="list-style-type: none"> <li>- Discuss at least 2 possible errors that could have occurred and how that could have impacted your results</li> <li>- If this experiment was conducted again, what would you revisions to the procedure would you make?</li> <li>- After conducting this experiment, what is at least one additional question you could expand on in another experiment?</li> </ul> </li> </ul>	2 20 4 4 2	
<p><b>References</b> – include textbook and any other resources used documented in MLA format</p>	1	

Total: 100