# LAB NOTEBOOK GRADING RUBRIC

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>Proficient (4-5)</th>
<th>Developing (2-3)</th>
<th>Basic (0-1)</th>
</tr>
</thead>
</table>
| **Organization** | • All pages are numbered and dated.  
• Each experiment contains title, purpose, brief procedure or reference to lab manual.  
• Observations, recorded data and calculations are present.  
• All information recorded in pen not pencil.  
• Experiment listed in table of content.  | • Most pages are numbered and dated.  
• Some of the experiments are missing one or two of the following: title, purpose, brief procedure or reference to lab manual.  
• Recorded data and observations are incomplete in some areas.  
• Some of the information is recorded in pencil.  
• Some experiments are not recorded in table of content.  | • Most pages are not numbered and dated.  
• Most of the experiments are missing several of the following: title, purpose, brief procedure or reference to lab manual.  
• Recorded data and observations are incomplete in most areas or not present.  
• All information is recorded in pencil.  
• Most experiments are not recorded in table of content.  |
| **Content** | • All observations are recorded completely.  
• All data is recorded and neatly presented with units to the correct number of significant figures.  
• All calculations are included and neatly presented with details including units and significant figures.  | • Observations are not complete and missing important details.  
• Data is recorded, but is not presented neatly or some are missing units or the correct number of significant figures.  
• Calculations are included, but are not presented neatly or missing details including units and significant figures.  | • Observations are mostly missing.  
• All data is not recorded and not neatly presented with missing units and have incorrect number of significant figures.  
• Calculations are not included or are very sparse with no units and incorrect significant figures.  |
| **Analysis** | • Data is explicitly analyzed, methods of analysis are described with appropriate detail.  
• Calculations are presented neatly.  
• Graphs, if appropriate, are included with analysis of slope and related information.  
• Sources of error are explored and considered when evaluating data.  | • Data analysis is implied, but not explicit, and methods of analysis are not described or properly used.  
• Calculations are not complete.  
• Graphs, if appropriate, are included, but they are done incomplete or incorrect.  
• Sources of error are explored, but they are inadequate or incomplete.  | • Data analysis is not included.  
• Calculations are missing.  
• Graphs, if appropriate, are missing or grossly incorrect.  
• Sources of error are not explored.  |
| **Conclusion** | • Results are explicitly interpreted and compared with literature data and/or concepts discussed in lecture.  
• Conclusion is written in coherent manner with proper English syntax.  | • Superficial and immediate conclusions are recorded.  
• Results are interpreted but interpretation is not explicit.  
• Conclusions are not written coherently and contain some spelling or grammatical errors.  | • Conclusions are not logical and/or do not agree with data presented.  
• Conclusions are written in non-coherent manner with many spelling and grammatical errors.  |