# Chemistry Lab Rubric

Lab Report Rubric – All laboratory investigations will use the following rubrics for grading.

<table>
<thead>
<tr>
<th></th>
<th>(5 pts)</th>
<th>(3 pts)</th>
<th>(2 pts)</th>
<th>(1 pt)</th>
<th>(0)</th>
</tr>
</thead>
</table>
| **Introduction** | - Name, Date, Lab Partner  
- Writes a statement of the purpose of the lab.  
- States a hypothesis that is based on research and/or sound reasoning  
- Title is relevant.  
- Hypothesis (prediction) is testable. | One of the "excellent" conditions is not met | Two of the "excellent" conditions is not met | Three of the "excellent" conditions is not met | |
| **Procedure**    | - Graphs and tables are present  
- Labeled correctly  
- Results and data are clearly recorded, organized so it is easy for the reader to see trends.  
- Written description present | A description or step-by-step list of how the experiment was performed | | | Description unclear, couldn't be repeated |
| **Observations / Results (data)** | - Graphs and tables are present  
- Labeled correctly  
- Results and data are clearly recorded, organized so it is easy for the reader to see trends.  
- Written description present | Results are clear and labeled, trends are not obvious, | Results are unclear, missing labels, trends are not obvious at all | | Results are present, though too disorganized or poorly recorded to make sense of |
| **Analysis / Questions** | - All questions have been answered completely and thoroughly.  
- Questions and answers are written | Analysis somewhat lacking in insight, enough data, though additional data would be more powerful | Analysis lacking in insight, not enough data was gathered to establish trends, OR analysis does not follow data | | Analysis poor, not enough data, inaccurate analysis |
| **Sample Calculation** | - Lab reports must contain at least one sample calculation of each type you are required to do.  
- You should have the general formula used in the calculation.  
- You should have the formula with the correct numbers & units included.  
- Your answer should include the correct units and the correct number of significant figures.  
- If there are no sample calculations write NONE | One of the "excellent" conditions is not met | Two of the "excellent" conditions is not met | Three of the "excellent" conditions is not met | |
| **Conclusions**  | - Summarizes the essential data used to draw conclusions  
- Conclusions follow data (not wild guesses or leaps of logic),  
- Discusses applications of experiment ("real world" connections)  
- Hypothesis is restated and rejected or accepted based on the data. | One of the "excellent" conditions is not met | Two of the "excellent" conditions is not met | Three of the "excellent" conditions is not met | |
| **Format**       | - Followed instructions  
- Proofread  
- Neat/legible | Neat, organized with headings, few spelling/grammar errors | | | Somewhat lacking in organization, multiple spelling/grammar errors, not neat |
| **Total**        | | | | | |

Please note, if any section is missing from the lab report, the grade earned cannot be higher than 60%.