**Biology Lab Report Rubric**

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|  | Advanced | Proficient | Below Basic | Not attempted |
| **Introduction**  **(Title, Problem, Hypothesis)** | 1. title is relevant.  2. Includes the question or problem to be answered by the lab  3. states hypothesis (If.., then…because…) that is based on research and/or sound reasoning | One of the "advanced" conditions is not met, two conditions met | 1. Two of the "advanced" conditions is not met, one is met  2. Introduction present, no exemplary conditions met |  |
| **Materials, Safety, and Procedures** | 1. List of all materials needed  2. Safety concerns are identified  3. Step-by-step process is included, could be repeated by another scientist/person  4. Paragraph summary of lab procedures is present | Description included, some steps are vague or unclear | 1. The description gives generalities, enough for reader to understand how the experiment was conducted  2. Would be difficult to repeat, reader must guess at how the data was gathered or experiment conducted |  |
| **Data and Analysis** | 1. Results and data are clearly recorded, organized, analyzed so it is easy for the reader to see trends.  2. All appropriate labels/units are included | Results are clear and labeled, trends are not obvious or there are minor errors in organization | 1. Results are unclear, missing labels, trends are not obvious, disorganized, poorly recorded, do not make sense  2. There is enough data to show the experiment was conducted but not enough data to justify results |  |
| **Conclusions** | 1. Hypothesis is rejected or accepted based on the data.  2. Summarizes data used to draw conclusions  3. Conclusions follow data (not wild guesses or leaps of logic)  4. Discusses applications, errors and real world connections | 3 of 4 of the "advanced" conditions is met | 3 or less of the 5 “advanced” conditions met |  |
| **Format and Lab Protocols** | 1. Lab report submitted as directed, and on time.  2. Directions were followed, stations were cleaned.  3. All safety protocols followed.  4. Scientific talk & work | Most of the “advanced” conditions were met; possible minor errors in format or procedures | Some of the “advanced” conditions met, directions were not explicitly followed, lab stations may have been left unclean or group not practicing good safety procedures, goofed around in the lab/non-scientific work |  |