|  |  |  |
| --- | --- | --- |
| **Criteria** | **Comments** | **Score** |
| **Format & Composition:*** Typed, left-justified, double spaced, font size of 12
* Each section of your research project is included on the top of the appropriate section.
* Document free of spelling and grammatical errors.
* Information displayed in a logical, well-organized fashion.
* Information is explained in a way that is suitable for the target audience.
 |  | **/5** |
| **Background Research:*** The relevance & importance of the experiment to real world applications is clearly articulated.
* Information serves as a foundation to help the audience understand the purpose and concepts investigated in the lab.
* The nature of the independent variable, dependent variable, and site of experiment (when applicable) is described.
* Lab investigation **question** describes the point of the lab/experiment.
 |  | **/15** |
| **Procedure:** * A *numbered list of steps* that explain, step by step, what you *did* during your experiment. (Another scientist should be able to EXACTLY create your experiment from these instructions.)
 |  | **/10** |
| **Hypothesis:** * Predictions made before your experiment, and for each experiment done during the lab.
* \*Written in an **If** (restate your experiment), **then** (predict what will happen *– be specific*), **because** (re-state what you know about the lab’s background info).
 |  | **/5** |
| **Data/Analysis:** * Data analysis is appropriate for type of data and question.
* Presented as GRAPHS or DIAGRAMS.
* Graphs should include axis titles, a title that includes information from both axis, and a key.
 |  | **/15** |
| **Results:** * A short summary of what meaningful data was collected.
* Report data and analysis as if you were reading the numbers over the phone to someone.
* Measure of statistical significance and type of mathematical relationship is stated.
* Do not describe the procedure or *meaning* of the results.
 |  | **/10** |
| **Discussion:** * How was your hypothesis correct or incorrect?
* Using **specific numbers** from your results, make inferences and/or explain the trends you see in the data you collected.
* In this section, you explain what your results *mean*
* Connects information learned from experiment to background information*.*
 |  | **/20** |
| **Conclusion:** * Summarize what you learned about your original question.
* Identify specific sources of error.
* Propose next steps for further (**different**) experiments.
 |  | **/10** |
| **Literature Cited:*** All resources (**minimum of** **4)** used are referenced in a bibliography and cited within the text.
 |  | **/5** |
| **Writing Process:*** Evidence of CONVERSATION, editing/revision to strengthen writing. Signature *and* comments from reviewer are required.
 |  | **/5** |
| **Total** |  | **/100** |