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| **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** |