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| --- | --- | --- | --- |
| Section of Report | Topics to be included | Points | Comments |
| **Abstract** | * **Simply state** purpose, methods, results, conclusions, and recommendations * **1 paragraph** * **Concise- short, sweet, and to the point** * Allows readers to decide whether they want to read the report or not | **5** |  |
| **Introduction** | **Paragraph discussing:**   * **Purpose** * **Background information** (needed to introduce the experiment) * What question(s) did I have? * Research should have in text citations. | **15** |  |
| * **Hypothesis** * **Appropriate format (no pronouns)** * **Testable** | **5** |  |
| **Materials & Methods**  (Past Tense) | **Paragraph discussing:**   * **Experimental procedures** * **Measurement procedures** * **Multiple trials and control present** * What did I actually do (specific enough for someone else to follow) to perform this experiment? * How did you use your materials/tools? | **10** |  |
| **Results/ Analysis** (Data, Observation  -and-  Graphical) | **Tables**   * What qualitative observations did I make? Dated and time stamped. * What quantitative data have I collected? * What balanced equations or calculations have I written? | **5** |  |
| **Graphs (digital if possible)**   * **Title** * **Axis labels** * **Graphed correctly** * **One sentence description of graph located directly below graph** | **10** |  |
|  | **Paragraph discussing:**   * **numbers in data** * **trends in graph** * **implications of results** (what do the numbers mean?) * What can I claim to answer my beginning question(s)? * What is my interpretation of my data (graphs, data, trends, or other analysis) to support my claim(s)? * Have I connected the proper evidence with the proper claim? * What related reading have I done to explain, confirm, or dispute what I have learned via the laboratory activity? * How have I tied what I have read into my work for this activity, and what resources have I cited (connection to background info discussed or other scientist work)? | **20** |  |
| **Discussion /Conclusion** | **Paragraph discussing:**   * **Support/reject hypothesis** * **Connections** * **How is this applicable to the real world? Why does anyone care?** Ties to purpose. * How does this work tie into concepts about which I have learned in class? * **Errors (not human error)** * Have I identified and explained sources of error and assumptions made during the experiment? * **Future questions (what could we test next)** * How have my ideas changed, what new questions do I have, or what new things do I have to think about? | **20** |  |
| **Formatting/ Grammar** | * **Proper format** * **Third person point of view (no pronouns)** * **Title page** * **High school level grammar/syntax/etc.** | **10** |  |
|  | **Total               /100** | |  |