|  |  |  |  |
| --- | --- | --- | --- |
| 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** |  |