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| --- | --- | --- |
| Name: | Points Possible | Points Received |
| **Title (1 pt.)** |  |  |
| *Descriptive* title indicates what was measured and the question addressed by the study. | 1 |  |
| **Introduction (7 pts)** |  |  |
| Scientific background relevant to the topic is clearly and accurately presented Briefly introduce other research relevant to your study | 2 |  |
| Briefly introduce the concepts necessary to understand the importance and **purpose** of your study | 2 |  |
| Study objectives and hypothesis incorporated into the introduction | 2 |  |
| Cite 2 journal articles within your introduction | 1 |  |
| **Materials and Methods (4 pts)** |  |  |
| What materials did you use? | 1 |  |
| Describe the experimental setup and the variables measured and number of replicates, explain the procedure used | 3 |  |
| **Results (5 pts)** |  |  |
| General trends or findings are stated backed up by pertinent values. Any statistical results are stated. (ex. p-values) | 2 |  |
| Graphs and tables properly formatted with a descriptive title | 1 |  |
| Data are displayed in a table and/or graph. Averages are reported and not raw data. | 1 |  |
| Figures and tables are referred to correctly in the text. | 1 |  |
| **Discussion (7 pts)** |  |  |
| Did your results support your hypothesis? How? Explain why or why not. (2-3 sentences) | 2 |  |
| How do your results fit in with what you know about biology? What is the biological significance of your results? (about 3 sentences) | 2 |  |
| What improvements could be made to your experimental design? | 2 |  |
| With the results of your experiment what would the next experiment you conduct be? | 1 |  |
| **References (2 pt.)** |  |  |
| Use the correct format (APA) to fully reference *at least two sources* in your introduction | 2 |  |
| **Communication (4 pts.)** |  |  |
| Paper is well organized with a logical flow; sentences are written with correct grammar, spelling, and punctuation | 3 |  |
| Section headings are included | 1 |  |
| **Total points** | 30 |  |

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