|  |
| --- |
| Heading (Left Justified):  First & Last Name  Teacher Name  Life Science – Section 7\_\_  Date Due |

|  |
| --- |
| Formatting Requirements   * Write in complete sentences * Use transitions to make sentences flow * 12-point font for all text including title * Double Spaced * Bolded title and subtitles * Arial or Times New Roman * 1” margins * Running header (right justified): Last name and page number. See above. * Neatly staple pages together before handing in. |

**Title:** (5 points)

A short, descriptive phrase to explain what the experiment is about. (Include IV and DV if it is a controlled experiment.)

**Introduction:** (20 points)

*First paragraph*: What is the topic of the lab? Describe general background information that will help the reader understand the lab.

*Second paragraph:* What is the purpose of the lab? Why do we care about this topic? What question are you trying to answer by performing the lab? What is/are your hypothesis/es and prediction(s)? \*If you performed a controlled experiment, include a description of your independent, dependent and control variables.

**Materials & Safety:** (15 points)

Include a bulleted list of materials that will be used to complete the lab, followed by a short description (in complete sentences) about what safety materials and precautions were implemented during the lab.

**Procedures & Observations**: (15 points)

Include the detailed steps you followed in order to complete the lab – numbered list preferred, but this section must be in **PAST TENSE.** Include detailed observations you recorded while doing the lab.

Please use the following format for your procedures and observations:

|  |  |
| --- | --- |
| **Procedures** | **Observations** |
| 1. Researchers gathered materials. |  |
| 1. Researchers filled the pots with planting soil. | The soil was dark brown with flecks of white in it |

**Data and Calculations**: (10 points)

Write down any data or information you collected during the lab. Make **a table and/or graph to organize this information.** \**Remember*: **Write 1 sentence to introduce the table, and create a title for your table. Label your axes on graphs and include a graph title!** Complete any necessary calculations and show an example of each type of calculation.

**Discussion:** (20 points)

Discuss your data/findings in complete sentences. What inferences can you make from your data? Was your hypothesis supported/not supported? Why or why not? What does this mean? Include at least three possible sources of error in this section. What could be improved about the procedures or the experiment in general? Describe one opportunity for future research regarding this topic. \*\*It is not enough to “just answer” these questions. You MUST provide **support** for your answers! Answer any post lab questions in this section.

**Conclusion**:(5 points)

In one or two sentences, what conclusions did you come to? What are you taking away from this lab? Give an example of how your conclusions are applicable to the real world and class concepts.

**Works Cited**:(5 points)

It is imperative that you always cite external sources you use as references. **Have a minimum 1 source, unless otherwise instructed.** Use MLA format, and include parenthetical citations (in-text citations) throughout your report as needed.

**Example website citation using easybib.com or citationmachine:** [**http://www.easybib.com/mla-format/website-citation**](http://www.easybib.com/mla-format/website-citation)

[**http://www.citationmachine.net/mla/cite-a-website**](http://www.citationmachine.net/mla/cite-a-website)

“Osmosis and Tonicity.” *Khan Academy*, Khan Academy, www.khanacademy.org/science/biology/membranes-and-transport/diffusion-and-osmosis/a/osmosis.