SPONGE ANIMAL EXPERIMENT

**Experimental Question:**

What is the rate of growth of sponge animals?

**Hypothesis:**

|  |  |
| --- | --- |
| **Define:** | **Experiment:** |

**Control:**

|  |  |
| --- | --- |
| **Define:** | **Experiment:** |

**Independent Variable:**

|  |  |
| --- | --- |
| **Define:** | **Experiment:** |

**Dependent Variable:**

|  |  |
| --- | --- |
| **Define:** | **Experiment:** |

**Quantitative vs. Qualitative**

|  |  |
| --- | --- |
| **Define Quantitative:**  **Define Qualitative:** | **Was the data in your experiment quantitative, qualitative, or both? Explain.** |

1. **How did you collect your data?**
2. **Show your data table:**
3. **To interpret your results, most experimental reports display a graph. What type of graph would you use and why?**
4. **Create this graph (either on Excel or on graph paper) and staple it to this sheet. The independent variable is on the X axis and the dependent variable is on the Y axis.**
5. **Use the graph to interpret your results and make a conclusion about your experiment. What does it tell you? Was your hypothesis supported?**
6. **What would you change about your experiment?**
7. **What mistakes were made during this experiment, which caused it to be less accurate than it could have been?**
8. **Pretend that another scientist just read your report on your sponge animal experiment. What is the next step that he/she can take to explore sponge animal growth even further? Write the new hypothesis here.**