**Seed Germination and Competition**

Scenario:

Amy’s lab assignment was to determine how members of a species are affected by intraspecific competition; competition by members within the same species. She used mung bean seeds and planted them in small pots. She put the same amount of dirt in each pot. In the first five plots she planted one seed. In the second five pots she planted 10 seeds and in the third five plots she planted 20 seeds. She placed them in a well lighted area and watered her plants whenever the soil was dry. During a time period of two weeks, she recorded the growth of each bean every two days. From this she was able to determine the average length.

Directions:

1. Read the scenario above. As a group complete an experimental design diagram.
2. Using the lab report format provided, complete the following steps:
3. Title
4. Problem Statement
5. Introduction
6. Hypothesis
7. Materials
8. Procedures
9. Variables: independent, dependent, control, constants (Remember MR. DRY MIX)
10. Data: Table
11. After teacher approves your procedures, set-up experiment. Make sure to label all pots with your group, period and the test being conducted.
12. Make sure you collect data every two days.
13. After two weeks, using the lab report format provided, complete the following steps:
14. Data: Graph (Remember MR. DRY MIX)
15. Results
16. Conclusion