

Name \_\_\_\_\_

## Lab Sheet

### Plants are Needy for Water?

**Objective:**

The student will experiment the effects of an even water supply on plant growth.

**Materials Needed:**

- 6 bean plants for each group that are 4 weeks old or any plant that has been transplanted and has four or more leaves.
- Containers with saucers
- Water source

**Procedure:**

1. Give each student group a set of 6 bean plants of similar size.
2. Ask students to label two of their plants "A," two "B," and two "C."
3. Have students measure the height of the plants; count the number of leaves, and record the data. Place the plants in the school greenhouse.
4. For the next three weeks, have students water the "A" plants daily, the "B" plants every other day, and the "C" plants every Monday. With each watering, students will apply enough water to come out the bottom drainage hole. Fifteen minutes after watering, students should dump the water out of the saucers.
5. Have students measure the height of each plant and count the number of leaves weekly.
6. Have students write comments about the appearance of the plants just before watering:
  - A. Is there any change in color of leaves?
  - B. Are all plants standing up well?
  - C. Are the leaves extended? Or, are they drooping?
7. Continue the watering practice for 8 weeks
8. At the end of the experiment, have students create a bar graph of the changes in the plants and analyze the data.
9. Each student should write the conclusions that these data suggest.

Discuss findings and comments in class