

## MARGARET BAHE=S TRANSPIRATION LAB

1. Select 4 plants that are about the same size. Remove blossoms and buds.
2. Water and drain them well.
3. Wrap the root ball of each with a plastic bag.
4. Tie the bag close to the stem with string. Label with your group and treatment.
5. Measure the masses of each of the four plants.
6. Place the plants in different environmental conditions in the room:
  - a. The control out of a draft
  - b. Three feet away from a fan on low
  - c. Three feet away from a flood light
  - d. Under an inverted aquarium that has had water misted into it
7. Measure the masses of each plant every day for one week.
8. Plot the changes in mass on a single graph. Percent change in mass can be calculated if necessary.
9. Plants can also be placed in other experimental groups like the dark, with some or all leaves removed, etc.

# TRANSPIRATION DATA ( grams of water)

Type	Monday	Tuesday	Wednesday	Thursday	Friday
Control	0*	0%			
Light	0*	0%			
High Humidity	0*	0%			
Fan	0*	0%			

Group \_\_\_\_\_

\* Cumulative data should be entered in these rows. Subtract each day's mass from original mass. To calculate percent change, divide change in mass per day by the original mass.