

Name: \_\_\_\_\_ Block \_\_\_\_\_ Date \_\_\_\_\_ Score \_\_\_\_\_ / 50 points

## ~Graphing Homework~

Directions: Be sure to read each question and complete all related tasks.

1. What are the metric units? Name them in order.
2. Measure the length of one of the tiles on the floor in cm.
3. Convert this measurement (found in #1) to all other Metric units from biggest to smallest.
4. Measure the width of your lab table you are sitting at in dm.
5. Convert this measurement (found in #1) to all other Metric units from smallest to biggest.
6. Experiment: *Students wanted to observe how plants release oxygen during photosynthesis. Since we cannot see oxygen in the air, they chose to use water plants. They submerged to identical water plants (called elodea) under water at a depth of 2 meters. They counted the amount of bubbles released (Oxygen) per minute. The students varied the depth of the plants in the water calculating the amount of bubbles released. The data table below shows their results.*
7. Using the data from the table below, make a proper graph. Be sure to label it correctly.

| Depth in meters | Number of Bubbles / minute Plant A | Number of Bubbles / minute Plant B |
|-----------------|------------------------------------|------------------------------------|
| 2               | 29                                 | 21                                 |
| 5               | 36                                 | 27                                 |
| 10              | 45                                 | 40                                 |
| 16              | 32                                 | 50                                 |
| 25              | 20                                 | 34                                 |
| 30              | 10                                 | 20                                 |

8. What is the IV for this experiment?
9. What is the DV for this experiment?
10. List 3 constants for this experiment?

### ANSWERS:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. -----
7. *Complete graph on back of this paper (15 pts)*
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_