

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

### Sweat Lab

**Objective:** How does sweat affect our body temperature?

**Hypothesis:** If (we sweat), then our body temperature will \_\_\_\_\_

#### Materials

- 2 thermometers
- 2 feet of paper towels
- Water

#### Procedure

1. Obtain the materials listed above from the materials table.
2. Record the starting temperatures of both thermometers in the table below. This gives you something to compare to.
3. Take one of the thermometers and wrap the end in a piece of **dry** paper towel.
4. Take the other thermometer and wrap the bottom in a piece of **wet** paper towel.
5. Record the temperatures of both thermometers at 1 minute intervals for 15 minutes. Have someone be the timer in your group. Use the table below to record your data.
6. When you have completed the table, return the materials to the materials table and answer the questions below.

#### Data

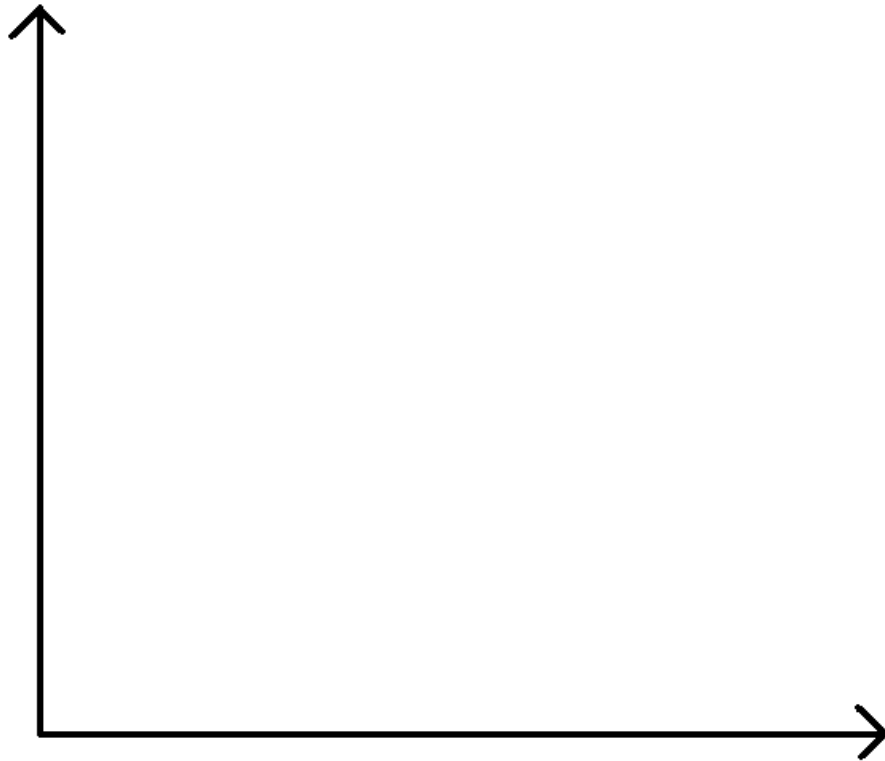
	0 min	1 min	2 min	3 min	4 min	5 min	6 min	7 min
Temp of <b>DRY</b> Thermometer								
Temp of <b>WET</b> Thermometer								

	8 min	9 min	10 min	11 min	12 min	13 min	14 min	15 min
Temp of <b>DRY</b> Thermometer								
Temp of <b>WET</b> Thermometer								

**Result:** My hypothesis is (correct/incorrect) because my data shows that when \_\_\_\_\_  
\_\_\_\_\_, the temperature \_\_\_\_\_.

### **Graphing**

Use the data you gathered to make a scatter plot. Then connect the dots. Label the x-axis “Time” and label the y-axis “Temperature in degrees Celsius”. Graph both the dry and wet thermometers’ data on the same graph.



### **Questions:**

1. Was there any difference between the temperatures of the two thermometers? If so, when was the difference the greatest?
2. What could you do that might make the temperature of the wet thermometer drop even more?
3. On a hot summer day why would you roll down the window of a car to cool down?
4. When people say it is humid outside, it means that the air is already holding a lot of water vapor in it. Why does it seem even hotter on these kinds of days?