**Measuring Temperature Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is Temperature?\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the temperature of the ice? P \_\_\_\_\_\_\_\_ IR\_\_\_\_\_\_\_\_\_\_ T\_\_\_\_\_\_\_\_\_\_
3. What is the temperature of the plain water? P\_\_\_\_\_\_\_ IR\_\_\_\_\_\_\_\_ T\_\_\_\_\_\_\_
4. What is the temperature of the hot water? P\_\_\_\_\_\_\_\_ IR\_\_\_\_\_\_\_\_\_\_ T\_\_\_\_\_\_\_\_
5. What is the temperature on the big demonstration thermometer? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Which of these is the room temperature? \_\_\_\_\_\_\_\_\_\_\_\_ Why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. What is the temperature of the black blocks before ice? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. How does block 1 feel to hold? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. How does block 2 feel to hold? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Which block melted the ice the fastest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. What is the temperature under block 1? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block 2?\_\_\_\_\_\_\_\_\_
13. What melted the ice? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Conductor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Insulator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

****

**Melting Blocks**

**Question:** Which block will an ice cube melt faster on, an aluminum block or a plastic block?

**Materials:** Lab sheets, melting blocks, rubber rings, 4 ice cubes, paper towel, and a timer.

**Procedure:**

1. Touch both blocks. Which feels warmer? \_\_\_\_\_\_\_\_\_\_\_\_\_
2. Complete the hypothesis statement below.
3. Place Rubber O rings on the blocks.
4. Place an ice cube on each block and start timing.
5. Observe the ice cubes.
6. Stop timing when one ice cube melts completely and record the time and block type below.
7. After wiping off the blocks with a paper towel, repeat steps 3-6.

8) Make final conclusions.

**Hypothesis:** I think that the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ melting block will melt the ice cube faster.

**Observations**:

**Trial 1:** The ice cube on the **aluminum plastic** block melted first in \_\_\_\_:\_\_\_\_\_.

*Circle One Min. Sec.*

**Trial 2:** The ice cube on the **aluminum plastic** block melted first in \_\_\_\_:\_\_\_\_\_.

*Circle One Min. Sec.*

**Conclusions:**

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ melting block melted the ice cube faster. This meant that heat was conducted or moved through this block faster and caused the ice cube to melt faster.

My hypothesis was **valid invalid**.

*Circle One*