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

**Ice Melting Blocks**

Goal:

 Observe what happens when ice is placed on blocks made of two different materials.

Materials:

 Black aluminum block, Black foam block, two O-rings, two ice cubes

Procedure:

1. Touch both blocks. Which feels warmer? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Predict which block will cause ice to melt faster. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Place the O-rings on the blocks to prevent water from flowing off. Place an ice cube on each block.

4. Observe the rates at which the ice cubes melt. Which material is conducting heat into the ice faster? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. After a few minutes, remove the ice and water, and touch the blocks again. Explain what you observe.

6. Explain why the aluminum block felt different at the beginning of the experiment. Was it a different temperature?

7. What happened to the molecules in the ice blocks? Why did they melt?

8. What are the three phases of matter and how do they differ?

9. How does matter change from a solid to a liquid? From a gas to a liquid?