



Name \_\_\_\_\_

Energy

## Heat Energy & Particle Movement

**Purpose:** To demonstrate the motion of particles due to heat

**Materials:**

3 small beakers	Ice water	Dark food coloring
Room temperature water	Hot water	

**Procedure:**

1. Fill a small beaker about 2/3 full of room temperature water.
2. Place one drop of dark food coloring on the surface of the water. DO NOT STIR.
3. Observe & record your observations.
4. Fill a second beaker about 2/3 full of ice water.
5. Fill a third beaker 2/3 full of hot water.
6. Place the beakers with the hot and cold water side by side.
7. Wait a minute for the water to stop moving. Then add one drop of food coloring to each beaker at the same time.
8. Observe and record.

**Data:**

### Movement of Water Particles in Different Temperatures

Water T	Observations
Room T	
Cold	
Hot	

