

Name: _____ Class: _____

Lesson 1: Particles in Motion

1. How does the food coloring moves through the liquid even though the water is not moving?

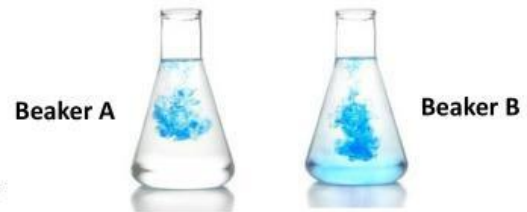


2. Food coloring is added to two beakers, one with cold water and the other with hot water.

a) Which beaker has hot water? _____

b) Which beaker has cold water? _____

c) Explain your answers.



3. (a) **Add** motion lines to the liquid particles model on the right to show they are moving faster than the liquid particles on the left.



Model A





Model B

(b) The energy of moving particles is called the _____ energy.

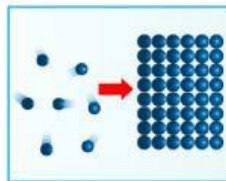
(c) Which model has more kinetic energy? _____

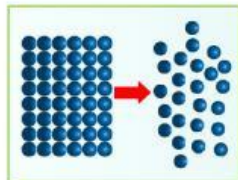
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4. Complete the table below using the words given in.

	Temperature of the Air (High/Low)	Speed of the particles (Fast/Slow)	Kinetic energy of particles (High/Low)	Space between the particles (Large/Small)	Volume of the Air (Increased/Decreased)
					
					

5. State whether the matter **Contract** or **Expand**?





6. "Jar with a tight lid can be opened if you are running it under hot water." Explain why.

