

1. After the food coloring is placed in the hot and cold water, what did you observe about the way the food coloring moved and mixed in each cup?

2. What does the speed of the mixing colors tell you about the speed of the molecules in hot and cold water?
 - A: Molecules of cold water move faster than molecules of hot water
 - B: Molecules of cold water move slower than molecules of hot water
 - C: Molecules of cold water move at the same speed as molecules of hot water
 - D: Molecules of water do not move

3. When the water molecules were heated, they:
 - A. Increased the speed
 - B. Decreased the speed
 - C. Moved closer together
 - D. Moved further apart

4. When the water molecules were cooled, they:
 - a. Increased the speed
 - b. Decreased the speed
 - c. Moved closer together
 - d. Moved further apart

5. Heating a substance -----molecular motion
 - A. Increases
 - B. Decreases

6. Cooling a substance -----molecular motion
 - A. Increases
 - B. Decreases