

Name:	 	
Date:	 	
Class:		

Molecules on the Move Worksheet

Directions: There's something that gets molecules in matter moving (or slows their movement) enough to cause changes in states of matter. That "something" is heat—or the absence of it! The state of matter depends on temperature. When temperatures go up or down enough, almost all matter will change.

Show that you understand how thermal energy causes changes in states of matter by writing an explanation of what happens to cause each of these events. Remember to include the change in state as well as a description of how the molecules move for each event.

1. The punch you poured in the 7. The wet sponge you left on 4. The big ice cubes you put in ice cube trays last night is a the counter last night is dry your water are now tiny. supply of popsicles today. this morning. 2. You forgot to turn off the 5. The chicken soup has boiled 8. Your little brother is crying teakettle, and now the water for half an hour and it seems because his snowman is is gone. to have "shrunk." shrinking. _____ 3. The cold, hard butter you 6. When you put the lid on the spread on your toast is now 9. Your mom hung your jeans simmering soup, the inside of soft and runny. outside on the clothesline, the lid gets all wet. _____ the temperature dropped below freezing, and your jeans are cold, hard, and stiff.