**Molecules in Motion**

Name: _____
Date: _____
Period: _____ Page: ___

**Objective:** _____
_____

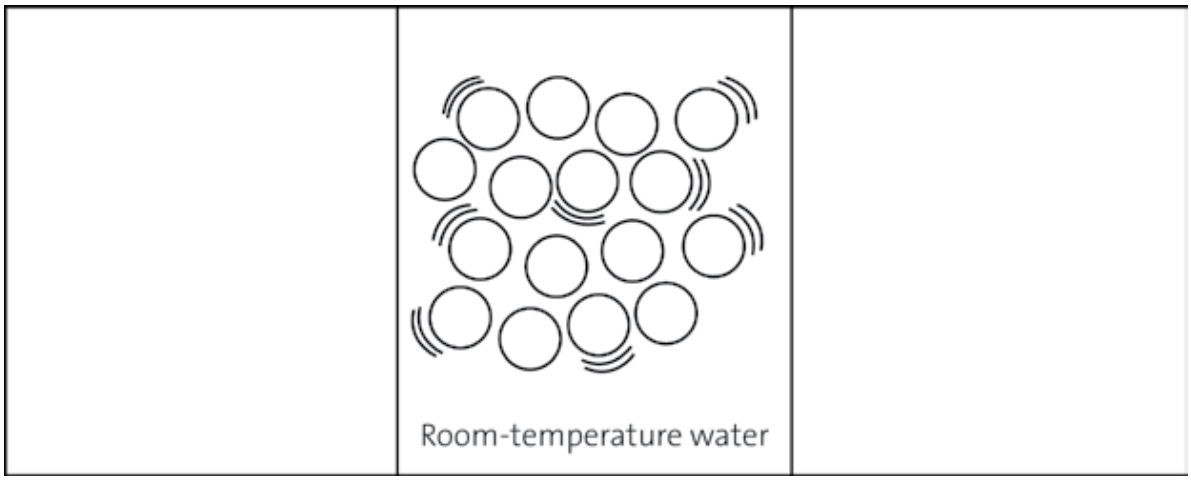
**Key Concepts:**

- Heating a liquid _____ the speed of the molecules.
- A _____ of the molecules competes with the attraction between molecules and causes molecules to _____.
- Cooling a liquid _____ the speed of the molecules.
- A _____ of the molecules allows _____to bring them _____.

## Molecules in Motion, processing

You saw an animation of water molecules being heated and cooled. Now you can draw your own molecular model. Using circles to represent water molecules draw a model of the molecules in hot and cold water.

- Use motion lines to show speed of molecules
- Consider the space between molecules in each temperature of water.




Based on our observations and the animations, fill in the blanks with the words **increases** or **decreases**.

Heating a substance _____ molecular motion.
Cooling a substance _____ molecular motion.
As molecular motion increases, the space between molecules _____.
As molecular motion decreases, the space between the molecules _____.