

Molecules in Motion

Objective: _____

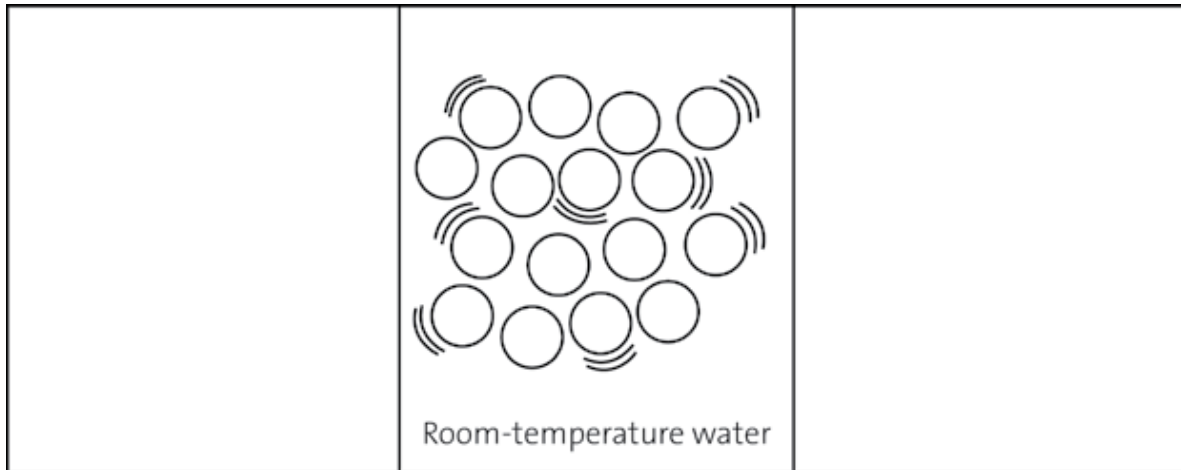
Key Concepts:

- * Heating a liquid _____ the speed of the molecules.
- * An _____ 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 _____.