

Name:

Date:

Class:

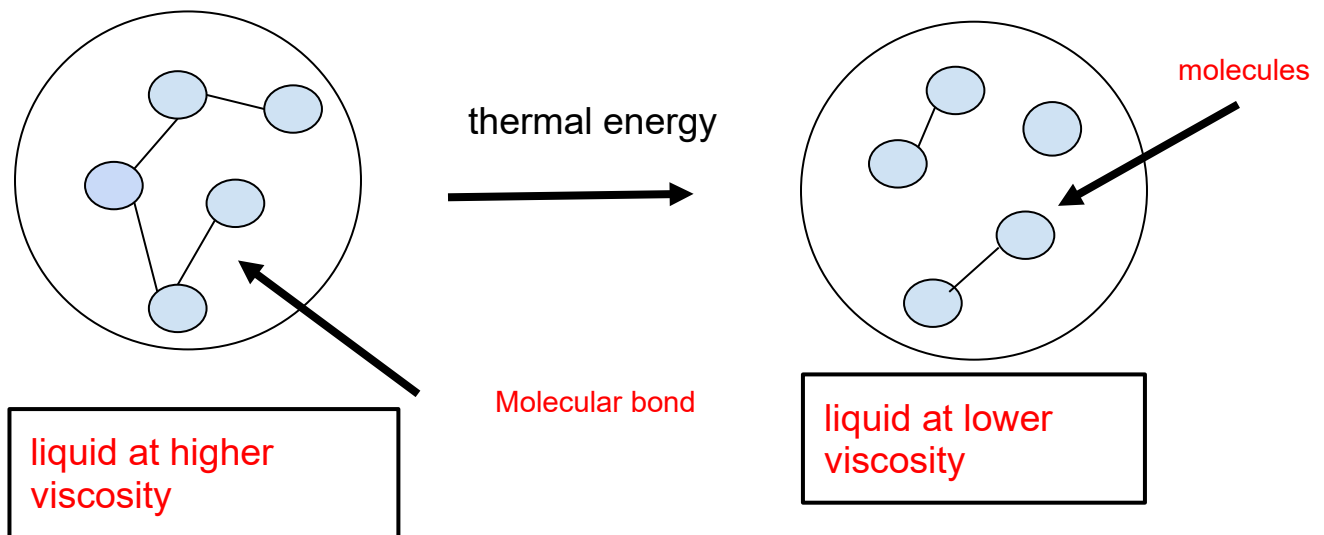
Let it Flow! Exit Ticket **Answer Key**

Complete this sentence: As the temperature of a fluid increases, its viscosity decreases.

*Students may also choose to describe the opposing relationship: As the temperature of a fluid decreases, its viscosity increases.

In the diagram below, draw a simple sketch of the molecular structure of a given liquid as it receives an increase in thermal energy.

Be sure to include the following labels for your diagram: “liquid at low viscosity” and “liquid at high viscosity.” Also label the following parts in your drawings: “molecular bond” and “molecule.”



Please explain your diagram.

*Students should show and explain in their drawing their understanding that as the liquid absorbs thermal (heat) energy, molecules break free of their molecular bonds, causing the viscosity to decrease.