**Viscosity – pg. 92-93:**

* *Viscosity*, the opposite of fluidity, is the resistance of a fluid to a change in shape or movement. It is denoted by its opposition to flow or its opposition to have other matter flow through it. Viscosity is caused by the internal friction of a fluid’s particles.

**Own words:**

**Examples:**

* *Flow rate* is the speed of fluid flow – distance over time. It is determined by calculating the time a fluid requires to flow a certain distance.

**Own words:**

**Examples:**

**Factors that Affect Flow Rate:**

• the size of the fluid’s particles

• the pressure exerted on the fluid

• the temperature of the fluid

\*\*\*Factors affecting the flow rate of *fluid through a tube* are the same as those listed above, as well as the surface material, straightness, and diameter of the tube and the difference in pressure from one end of the tube to the other.

**Comparing Flow Rates**

Which of the following would have **a faster flow rate**? Explain your answer.

1. a straw with a narrow diameter or a straw with a larger diameter

2. a milkshake with a temperature of +5°C, or a milkshake with a temperature of –5°C

3. a milkshake with large chunks of ice cream or a milkshake that is smooth and has been thoroughly mixed