

DUE
FRIDAY, April 12

NAME

DATE

CLASS

Chapter 8

SKILL ASSESSMENT

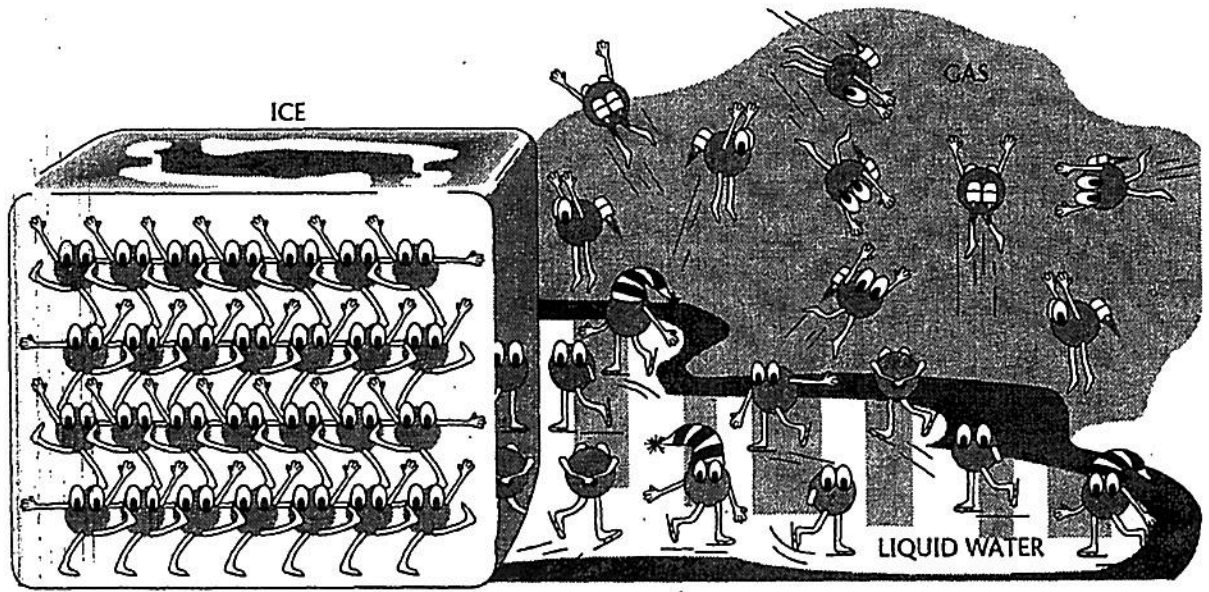
• Creative Cartoon Kinetics

The kinetic molecular theory is a very useful model. It can be used to explain many concepts on a molecular level. It is useful for explaining thermal expansion, evaporation and other changes in state, diffusion of odors, changes in pressure and temperature, hot air balloons, and many other phenomena. The mark of a useful model is its ability to be used to predict the outcome of many different situations.

Draw a cartoon representing molecular movement during an example of one of these activities or an activity of your choice. The cartoon should represent any solids as molecules vibrating in place. Liquids should be represented as molecules that can slide around each other. Gases should have molecules that are far apart and can move freely to all parts of the container. The cartoon should make it clear how the kinetic energy of the substance will be changed as the event takes place. For example, if thermal energy is added or taken away, the pressure is increased, or a solution is stirred, the effects of this event should be shown in the motions of the molecules involved.

The simplest way to plan your cartoon is to make a flowchart of the sequence of activities. Next, draw sketches to represent each stage on the chart. Then draw your cartoon in its final form. Be sure to make any lettering neat and all drawings clear.

Exchange cartoons with another student and see if they can follow your cartoon interpretation of the kinetic molecular theory applied to some situation!



- Draw a picture that represents the particles of matter in a creative way.
- Colorful
- Clearly label the particles (solid, liquid, gas)