

Lesson 2

ANSWER KEYS

Figures & Reading Checks



increasing

Hot Apple Cider

Figure 2 Apple cider is best served hot!

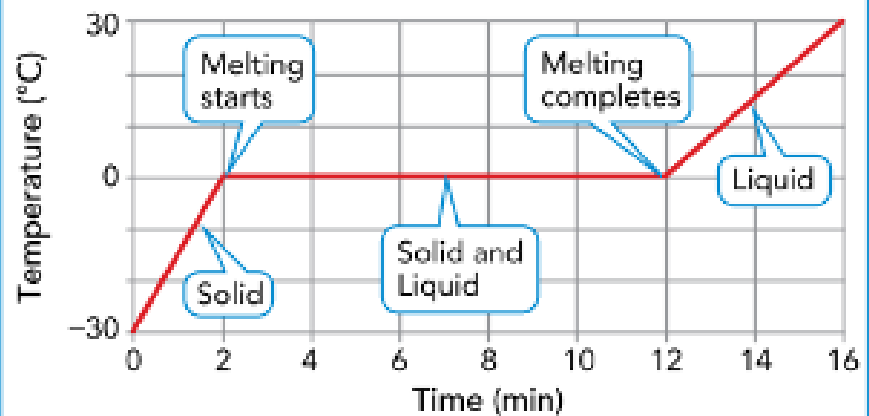
Changing Ice Into Water

Figure 3 The graph shows approximately how the temperature of solid ice changes as it melts into liquid water.


SEP Interpret Data How long did it take for the ice to completely melt once it reached the melting point?

10 minutes

Changing Solid Ice into Liquid Water



Figures & Reading Checks

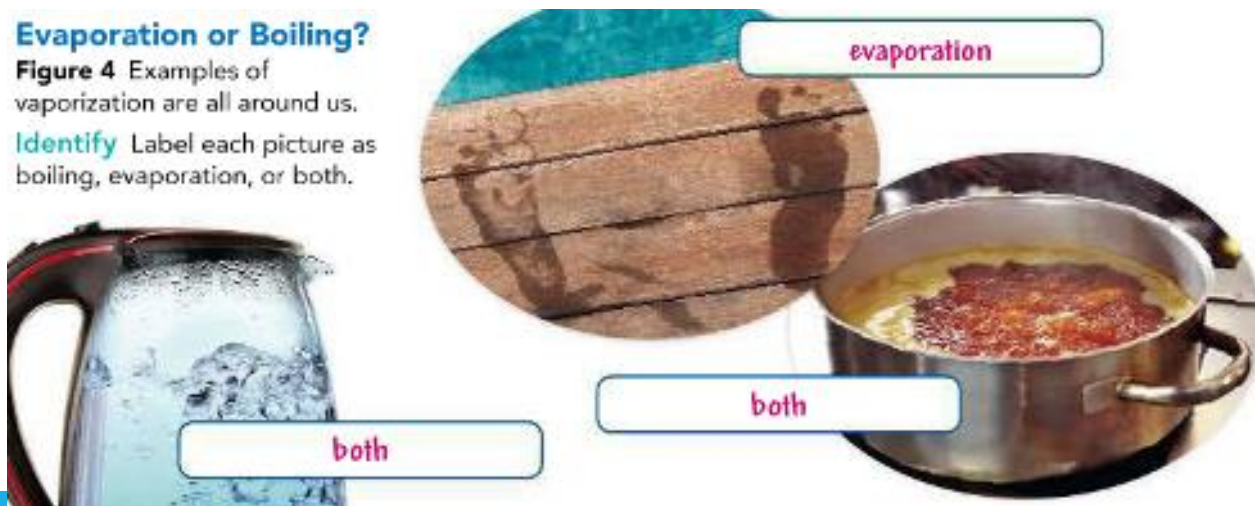
 **READING CHECK** Determine Central Ideas What is the difference between melting and freezing?

Melting is when a solid changes to liquid, and thermal energy increases. Freezing is when liquid changes to solid, and thermal energy decreases.

Evaporation or Boiling?

Figure 4 Examples of vaporization are all around us.

Identify Label each picture as boiling, evaporation, or both.

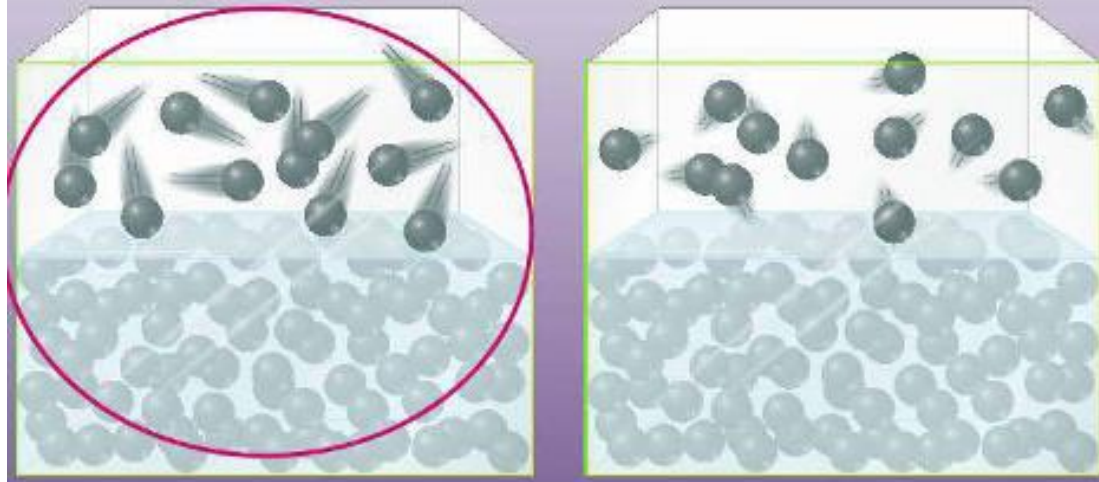


Figures & Reading Checks

Pressure and Vaporization

Figure 5 ✎ Circle the image in which the liquid would require more thermal energy to change to a gas. How did you determine your answer?

The left-hand image suggests that the gas particles are more active and at a higher pressure. The liquid in the left-hand image would require more thermal energy for the pressure within the liquid to equal the pressure of the gas above.



Figures & Reading Checks

Foggy Mountains

Figure 7 Fog forms in the cool air.

READING CHECK Draw Evidence What is happening to the water vapor in the air in this photograph?

It is condensing into tiny droplets and forming clouds.

Model It!

Dry Ice

Figure 8 Dry ice sublimates, changing directly from a solid to a gas.

SEP Develop Models Think about what is happening to the particles of carbon dioxide as the dry ice changes from solid to gas. Draw models of the particles in the two phases of matter. Use an arrow to show the flow of thermal energy into the solid carbon dioxide.

