## Changes of State

## **Understanding Main Ideas**

Complete the table by writing whether there is a gain or loss of thermal energy for each change of state and whether the movement of particles increases or decreases.

Change of State	Thermal Energy	Movement of Particles
1. Melting	-	
2. Freezing		
3. Vaporization		
4. Condensation		
5. Sublimation		

## **Building Vocabulary**

From the list below, choose the term that best completes each sentence.

melting point	melting	sublimation
boiling point	freezing	vaporization
evaporation	boiling	condensation

- 6. The temperature at which a liquid boils is called its
- 7. The change in state from gas to liquid is called
- 8. The change in state from liquid to gas is called
- 9. Gas bubbles forming throughout the liquid during a change in state is called
- 10. Liquid changing to gas only at the surface is called
- 11. The change in state from solid to liquid is called
- 12. The change in state from liquid to solid is called
- 13. In most pure substances, melting occurs at a specific temperature, called the \_\_\_\_\_\_
- 14. In \_\_\_\_\_\_, particles pass directly from solid to gas.



Name	1	Date	Class
Solids, Lic	quids, and Gases • Chapt	er Test	
Solids	s, Liquids, and G	ases	
<b>Multiple</b> Write the	e <b>Choice</b> letter of the correct answer on th	ne lime at the left.	
	<ul> <li>a. area.</li> <li>c. temperature.</li> <li>2. A liquid has a</li> <li>a. constant temperature.</li> <li>b. definite shape.</li> <li>c. crystal structure.</li> <li>d. definite volume.</li> </ul>	<ul><li>b. volume.</li><li>d. pressure.</li></ul>	when working with a gas except
	<ul> <li>a. evaporation.</li> <li>c. melting.</li> <li>4. Which of the following is solids?</li> <li>a. particles arranged in reb. becomes softer and softer.</li> <li>c. made up of crystals.</li> <li>d. has a distinct melting presented.</li> </ul>	b. condensa d. sublimati NOT a characteri epeating patterns ter as temperatur	stic of crystalline
,	<ul> <li>5. Boyle's law states that as</li> <li>a. volume increases.</li> <li>b. temperature increases</li> <li>c. volume decreases.</li> <li>d. temperature decreases</li> <li>6. Which of the following is</li> <li>a. water rising into dry a</li> <li>b. bubbles forming as w</li> <li>c. wet pavement drying</li> <li>d. water droplets forming</li> <li>7. A substance which takes</li> </ul>	the pressure of a  S.  S.  S.  S.  S.  S.  S.  S.  S.  S	e of vaporization? er the ocean ver
	<ul> <li>a. solid.</li> <li>c. gas.</li> <li>8. Because of surface tensions.</li> <li>a. resists flowing.</li> <li>b. forms a crystalline soccurrence takes the shape of its d. forms droplets.</li> </ul>	b. liquid. d. crystal. on, a liquid	