

NAME:

PHASES TEST REVIEW (2)

PERIOD:

To complete the following sentences, choose the correct term from each pair of terms listed, and write the term in the blank.

1. The drops of water that appear on the outside of a glass of cold juice on a warm day are an example of _____ . (condensation or evaporation)
2. The way a balloon decreases in volume when the temperature is decreased illustrates _____ . (Boyle's law or Charles's law)
3. _____ is the change of state from a liquid to a gas. (Vaporization or Condensation)
4. Sublimation is a change of state from a solid directly to a _____ . (liquid or gas)
5. In an _____ change, energy is added to a substance. (endothermic or exothermic)

Circle the correct answer.

7. Boyle's law explains the relationship between volume and pressure for a fixed amount of a
 - a. solid.
 - b. liquid.
 - c. gas.
 - d. plasma.
8. Which of the following examples involves an exothermic change?
 - a. ice melting on a warm day
 - b. water boiling in a tea kettle
 - c. gaseous water particles coming together to form fog
 - d. air in a bicycle tire gaining pressure after a long ride
9. Which of these factors could affect the temperature at which water boils?
 - a. the volume of water in the pot
 - b. the altitude where the water is heated
 - c. the amount of energy added to the water
 - d. the type of fuel used to heat the water
10. The particles of water that evaporate from an open container have _____ than the particles that remain.
 - a. more speed
 - b. greater order
 - c. higher energy
 - d. more speed and higher energy
11. Hydraulic systems, such as the brakes on an automobile, work because liquids tend to maintain a constant
 - a. volume.
 - b. pressure.
 - c. temperature.
 - d. boiling point.
12. Which of the following occurs when a liquid becomes a gas?
 - a. The particles give off energy.
 - b. The particles break away from one another.
 - c. The particles move closer together.
 - d. The particles slow down.

14. Explain why more time is required to boil pasta in Denver, Colorado, than in New Orleans, Louisiana.

15. To create special effects for movies and television shows, technicians often pour water over solid carbon dioxide, also called dry ice. What effect does this produce? Explain your answer.

17. Scientists believe that all particle motion stops completely at -273.15°C . This is equal to 0 on the Kelvin temperature scale. The difference between each degree on the Kelvin scale is exactly the same as the difference between each degree on the Celsius scale. What is the boiling point of water on the Kelvin scale? Show your work.

CONCEPT MAPPING

18. Use the following terms to complete the concept map below: plasmas, vibrate, pressure, added.

