

Assessment

Chapter 3 Practice Test

Elements, Compounds, and Mixtures

MULTIPLE CHOICE

Circle the letter of the best answer for each question.

1. What pure substance forms when two elements chemically combine?
 - a. an element
 - b. a compound
 - c. a mixture
 - d. a solution
2. Why can salt dissolve in water?
 - a. Salt is the solvent.
 - b. Salt is a solution.
 - c. Salt is soluble.
 - d. Salt is an element.
3. What is it called when particles in substances separate and spread evenly?
 - a. insolubility
 - b. dissolving
 - c. concentration
 - d. suspension
4. How can a compound be broken down?
 - a. by physical changes
 - b. by chemical changes
 - c. by crushing
 - d. by cooling

Chapter Test C *continued*

Circle the letter of the best answer for each question.

5. What forms when particles of two or more substances are evenly mixed?
 - a. compound
 - b. suspension
 - c. solution
 - d. element

6. Which of the following is a chemical property?
 - a. density
 - b. reactivity with acid
 - c. boiling point
 - d. color

7. Which of the following statements about particles in both solutions and colloids is true?
 - a. Particles cannot scatter light.
 - b. Particles can settle out.
 - c. Particles are soluble.
 - d. Particles cannot be filtered.

8. Which of the following is NOT true of compounds?
 - a. They contain two or more elements.
 - b. They form after a physical change.
 - c. They have their own physical properties.
 - d. They do not form randomly.

Chapter test c *continued*

MATCHING

Read the description. Then, draw a line from the dot next to each description to the matching word.

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|-----------------------------|---|-------------|
| 9. gelatin | ● | a. colloid |
| 10. nugget of gold | ● | b. solution |
| 11. water | ● | c. element |
| 12. salt dissolved in water | ● | d. compound |
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- | | | |
|---|---|---------------|
| 13. a solid solution of metals or nonmetals dissolved in metals | ● | a. alloy |
| 14. an element that shares metal and nonmetal properties | ● | b. suspension |
| 15. a mixture of large, dispersed particles | ● | c. solvent |
| 16. the substance in which a solute dissolves | ● | d. metalloid |

Chapter test C *continued*

FILL-IN-THE-BLANK

Read the words in the box. Read the sentences. **Fill in each blank** with the word or phrase that best completes the sentence.

ratio	distillation	nonmetals	nitrogen
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17. A mixture of liquids can be separated by _____.
18. Bacteria make compounds from _____ in the air
19. All _____ are poor conductors of heat and electric current.
20. Elements join in a specific mass _____ to form a compound.