

Directed Reading A

7-2

Section: Compounds

1. List three examples of compounds you encounter every day.

COMPOUNDS: MADE OF ELEMENTS

2. Which of the following is NOT true about compounds?
 - a. Compounds are combinations of elements that join in specific ratios according to their masses.
 - b. The mass ratio of a specific compound is always the same.
 - c. Compounds are random combinations of elements.
 - d. Different mass ratios mean different compounds.
3. When two or more elements are joined by chemical bonds to form a new pure substance, we call that new substance a(n) _____ that reacted to form it.
4. A compound is different from the _____ that

PROPERTIES OF COMPOUNDS

5. Which of the following statements is true about the properties of compounds?
 - a. A property of all compounds is to react with acid.
 - b. Each compound has its own physical properties.
 - c. Compounds cannot be identified by their chemical properties.
 - d. A compound has the same properties as the elements that form it.
6. Sodium and chlorine can be extremely dangerous in their elemental form. So how is it possible that we can eat them in a compound?

Match the correct description with the correct term. Write the letter in the space provided.

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|---|--------------------|
| 7. a poisonous, greenish yellow gas | a. sodium chloride |
| 8. table salt | b. chlorine |
| 9. a soft, silvery white metal that reacts violently with water | c. sodium |

WATER: A UNIQUE COMPOUND

10. Which two elements combine to form the compound water?
 - a. carbon and oxygen
 - b. hydrogen and carbon
 - c. hydrogen and oxygen
 - d. oxygen and chlorine
11. Water is able to form drops due to a force called _____
12. Why is water considered the universal solvent? _____
13. How does the specific heat capacity of water make life on Earth possible? _____

BREAKING DOWN COMPOUNDS

14. What compound helps give carbonated beverages their "fizz"? _____
15. Which elements make up the compound that helps give carbonated beverages their "fizz"? _____
16. The only way to break down a compound is through a(n) _____

COMPOUNDS IN YOUR WORLD

17. What compound is used by plants in photosynthesis to make carbohydrates?
 - a. nitrogen
 - b. ammonia
 - c. hydrogen
 - d. carbon dioxide
18. Aluminum is produced by breaking down the compound _____