Name _

Class

Skills Worksheet) Directed Reading B

Section: Compounds (pp. 138-141)

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

1. Water (H2O)	
2. Salt (NaCI) sodium chloride	
3. Sugar, (C6H12O6) glucose	

COMPOUNDS: MADE OF ELEMENTS

2. When two or more elements are joined by chemical bonds to form a new

pure subs	tance, the new su	bstance is o	called a(n) _	_ compound	
3. A compou	und is different fro	om the	elements		that make it up.
			_		_

4. A(n) <u>chemical change</u> is the process by which substances change into new substances.

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.
 - $\boldsymbol{\mathsf{d}}.$ A compound has the same properties as the elements that form it.
- **6.** 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.
- **7.** Sodium and chlorine can be extremely dangerous in their elemental form. How is it possible that we can eat them in a compound?

	Salt, even though it is made of two harmful elements,	
	When they are bonded together into a salt crystal,	
	it has it's own unique chemical properties.	
	The salt breaks up into your saliva and becomes	
	aqueous ionic forms of the elements.	
_		

Name	Class	Date
Directed Reading B continued		

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



sodium chloride

9. table salt

a. sodium chloride

8. a poisonous, greenish yellow gas

b. chlorine**c.** sodium

sodium_ **10.** a soft, silvery white metal that reacts violently with water

BREAKING DOWN COMPOUNDS

11. What compound helps give carbonated beverages their "fizz"?

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carbonic acid	turns into	carbon	aloxide	bubbles	that fizz)

12. Which elements make up the compound that helps give carbonated beverages their "fizz"?

HCO3- = carbonic acid	
H=hydrogen C=carbon	
C=carbon	
O=oxygen	
	ł

13. The only way to break down a compound is through a(n)

___<mark>chemical</mark>_____change.

COMPOUNDS IN YOUR WORLD

14. Aluminum is produced by breaking down the compound

bauxite, or aluminum oxide, Al2O3

15. Plants use the compound <u>Carbon dioxide and water</u> in photosynthesis to make carbohydrates.

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