Name	Class	Date
Directed Reading B continued	d	
is called a(n) a. bond. b. electron. c. molecule. d. atom.	s that make up a single uni	it of a covalent compound
15. What does it mean if a sub		ater?
Not being soluble means that you can become aqueous.	cannot dissociate into ions	
Covalent compounds like Carbon I dissolved in water and is not really		
16. Why are some covalent co		ater?
Because they do not ionize to get pound and blend in with the polar water more and blend in which the polar water more and the polar water wa	plecules	lting points than ionic
Covalent compounds like water between the molecules, they be lonic compounds like salt, have and must get to higher temper	poil at lower temperatures. e strong + to - attractive forces	
18. Why doesn't sugar dissolve	ed in water conduct electr	ic current?
	ecule. Even though it can dissolven the water and carry the electric	
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Name	Class	Date	
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Skills Worksheet

Directed Reading B

Section: Acids and Bases ACIDS AND THEIR PROPERTIES



- **1.** Any compound that increases the number of hydronium (H_3O^+) ions dissolved in water is called a(n)
 - a. base.
 - **b.** acid.
 - **c.** indicator.
 - **d.** neutral.

a water molecule

- 2. To form hydronium ions, each hydrogen ion bonds with
 - a. an oxygen atom.
 - **b.** a water molecule.
 - c. an acid.
 - **d.** a base.

hydronium ions

- **3.** When hydrogen ions (H⁺) bond to water molecules (H₂O) they form
 - **a.** hydrogen ions (H⁺).
 - **b.** hydronium ions (H_3O^+) .
 - **c.** water molecules (H_2O) .
 - d. bases.

sour

- **4.** What flavor do acids have?
 - a. sweet

c. sour

b. salty

d. none

many are corrosive

- 5. Why should a person NEVER taste or touch an unknown chemical?
 - **a.** Many are flavorless.
 - **b.** Many are too sweet.
 - **c.** Many are corrosive.
 - **d.** Many are too salty.

indicator

- **6.** A compound that can reversibly change color depending on conditions such as pH is called a(n)
 - a. indicator.
 - **b.** color meter.
 - **c.** color changer.
 - **d.** water molecule.

litmus paper

- 7. Two commonly used indicators are bromthymol blue and
 - a. hydrochloric acid.
 - **b.** silver nitrate.
 - c. litmus paper.
 - **d.** color changer.

Name		Class	Date
Directed	Reading B continued		
red 8.	What color does blue litmus a. green b. red	paper turn when c. blue d. orange	
hydrogen gas 9.	What is produced when acids a. oxygen gas b. other metals c. silver crystals d. hydrogen gas	s react with som	ne metals?
current 10.	Since acids form hydronium a. make oxygen. b. break apart water molecul c. conduct electric current. d. straighten hair.	,	olutions of acids can
Match eac	h product with the correct acid	d. Write the lette	er in the space provided.
nitric acid 11.	rubber		a. sulfuric acid
sulfuric acid 12.	car batteries		b. nitric acid
			c. hydrochloric acid
cinc acid_ 13.	orange juice		d. citric acid
hydrochloric acid _ 14.	swimming pools		e. carbonic acid
carbonic acid 15.	soft drinks		
BASES AN	ID THEIR PROPERTIES		
_ <mark>base</mark> _ 16.	Any compound that increase dissolved in water is a(n)		hydroxide ions when
	a. gas.	c. acid.	
hydroxide ions 17.	 b. sodium. Bases get their properties from a. soaps. b. baking soda. c. hydroxide ions. d. chloride ions. 	d. base.	
slippery feel 18.	The properties of bases incluated a. strong bond. b. slippery feel. c. hydroxide lattice.	ide a bitter taste	e and a(n)

d. unpleasant odor.

Name	Class	Date

Directed Reading B continued

touch or taste it

- 19. What should you NEVER do to identify a chemical?
 - a. add salt to it
 - **b.** use an indicator
 - c. taste or touch it
 - **d.** look in a book

- **20.** What color does a base change red litmus paper to?
 - a. blue
 - **b.** purple
 - c. green
 - **d.** orange

conduct electric current

- **21.** Because bases increase the number of hydroxide ions, OH⁻, solutions of bases can
 - **a.** indicate temperature.
 - **b.** split atoms.
 - **c.** conduct electric current.
 - **d.** stop electric current.

Match each product with the correct base. Write the letter in the space provided.

sodium hydroxide **22.** soap

magnesium hydroxide 23. antacids

calcium hydroxide **24.** cement

a. magnesium hydroxide

b. sodium hydroxide

c. calcium hydroxide