Skills Worksheet

Vocabulary and Section Summary B

Acids and Bases

VOCABULARY

After you finish reading the section, try this puzzle! Use the clues below to solve the crossword puzzle!

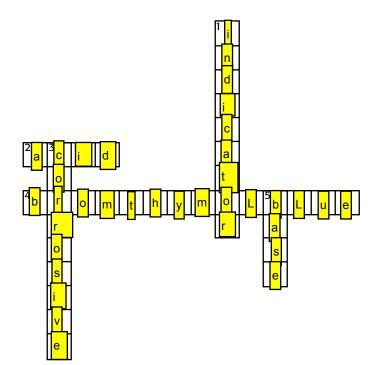
ACROSS

Name

- acid**2.** any compound that increases the number of hydronium ions when dissolved in water
- bromthymol blue
- **4.** an indicator that is pale blue in water and turns yellow in the presence of an acid

DOWN

- **1.** a compound that can reversibly change color depending on conditions such as pH
- **3.** describes a substance that can destroy body tissues, clothing, and corrosive many other things
- **5.** any compound that increases the number of hydroxide ions when dissolved in water



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Skills Worksheet

Vocabulary and Section Summary B

Solutions of Acids and Bases

VOCABULARY

After you finish reading the section, try this puzzle! Fill in the blanks with the correct terms. Then, use the words to complete the word search puzzle on the next page.

Clues

Name _

1. Sulfuric acid, hydrochloric acid, and nitric acid are all

strong acids.

рH

- **2.** The reaction of an acid and a base to form a neutral solution of water and a salt is called a(n) _______ reaction.
- **3.** The value that is used to express the acidity or basicity of a solution is
- **4.** An indicator can identify whether a solution contains an acid or a(n)
- 5. An ionic compound formed when a metal atom replaces the hydrogen of an acid is called a(n) ________.

Name _

 $Class_$

_															
	L	с	х	R	G	S	Q	J	S	х	Α	G	I	Т	x
	Ν	x	Y	Q	S	Q	М	F	Ν	S	х	Е	н	N	U
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	D	Е	Y	С	М	J	0	Т	Μ	Z	D	C	w	Q	Y
	Н	Т	F	В	S	L	Ρ	S	Q	D	т	s	J	T	Z
	I	Е	Q	G	L	G	К	С	Q	R	s	I	Х	L	х
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	F	Ν	В	Е	Е	S	I	G	I	А	R	Q	Р	м	w
	J	х	G	S	J	z	G	к	V	S	В	R	Z	U	х
	Z	Q	0	v	A	X	D	м	Q	Ν	I	Z	L	х	С
	Е	R	Z	Т	s	Z	J	R	Ν	J	F	S	Ν	х	Е
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Vocabulary and Section Summary B continued

SECTION SUMMARY

Read the following section summary.

- Every molecule of a strong acid or base breaks apart to form ions. Few molecules of weak acids and bases break apart to form ions.
- An acid and a base can neutralize one another to make salt and water.
- pH is a measure of hydronium ion concentration in a solution.
- A salt is an ionic compound formed when an acid reacts with a base.

Skills Worksheet

Directed Reading B

Section: Elements in Living Things THE BONDING OF CARBON ATOMS

1. Name two reasons why carbon has a central role in the chemistry of living organisms.

Carbon is light weight and can bond with 4 other atoms. This gives carbon the most diversity of possible combinations to make large molecules. This allows life to be very diverse.

- 2. Each carbon atom has _____four____ valence electrons.
 3. Each carbon atom can make a total of ______ bonds.
 atoms are connected
- **4.** Models of carbon backbones show how ______
- **5.** A covalently bonded compound that contains carbon is called
 - a(n) _____organic compound ______

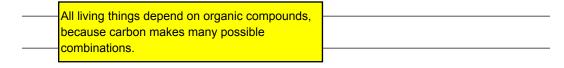
Match the correct description with the correct term. Write the letter in the space provided.

single bond	6. type of bond carbon atoms most often form	a. propane		
ethene	7. simplest example of an organic compound	b. ethyne		
	with a double bond	c. single bond		
propane	8. compound whose carbon atoms have only single bonds	d. ethene		
<mark>ethyne</mark>	9. organic compound that has triple bonds			

OTHER ELEMENTS IN LIVING ORGANISMS

between carbon atoms

10. What type of compounds do all living things depend on?



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