Name	Class	Date

Skills Worksheet

Directed Reading B

Section: Solutions of Acids and Bases STRENGTHS OF ACIDS AND BASES

1.	What is the amount of acid or base dissolved in water called? a. concentration b. strength c. pH
	d. neutralization
2.	When an acid dissolves in water, which of the following is dependent
	on the number of molecules that break apart? a. the acid's concentration
	b. the acid's color
	c. the acid's durability
	d. the acid's strength
3.	In which of the following do all the molecules of an acid break apart in water?
	a. a strong acid
	b. a strong base
	c. a weak acid
	d. a weak base
4.	In which of the following do only a few of the molecules of an acid break apart in water?
	a. a strong acid
	b. a strong base
	c. a weak acid
	d. a weak base
5.	In which of the following do all the molecules of a base break apart?
	a. a strong acid
	b. a strong base
	c. a weak acid
	d. a weak base
6.	In which of the following do only a few molecules of a base break apart?

- **a.** a strong acid
- **b.** a strong base
- **c.** a weak acid
- **d.** a weak base

Name	Class	Date
Directed Reading B conti	nued	
ACIDS, BASES, AND NEUT	RALIZATION	
7. What is the reac	ction between acids ar	nd bases called?
a. a neutralizati		
b. an explosion		
c. a strength rea	action	
d. evaporation		
8. What do the H ⁺	ions of an acid and th	ne OH- ions of a base form when
they react?		
a. oxygen		
b. water		
c. sugar		
d. hydrogen gas	•	
9. What can show	whether a solution co	ontains an acid or a base?
a. an indicator		
b. pure water		
c. antacids		
d. salt		
1 0. The	scale is used	to express the acidity or basicity
(alkalinity) of a system		-
11. The pH of a solution sh		n of what type of ion?
11. The piror a solution sh	lows the concentration	if of what type of fort.
Match the correct description	on with the correct ter	m. Write the letter in the space
provided.		
12. pH of a neutral :	solution	a. greater than 7
-		b. less than 7
13. pH of a basic so	olution	
14. pH of an acidic	solution	c. 7
-		als with a pH of less than 7?
. What are three example	es of common materia	us with a pir of less than 7:
-		

Nar	ne Date
D	irected Reading B continued
16.	What are three examples of common materials with a pH of more than 7?
17.	Name two types of pH indicators.
For	each organism listed, write the preferred pH or pH range.
	18. pine trees
	19. lettuce
	20. fish
	How does acid rain form, and what is its effect on nature?
SAI	LTS
22.	What two substances are produced when an acid neutralizes a base?
23.	What is a salt, and how does it form?
24.	Name three salts, and tell what they are used for.