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Chapter 8 Solutions, Acids, and Bases

Section 8.3 Properties of Acids and Bases

(pages 240-245)

This section describes the general properties of acids and bases.

Reading Strategy (page 240)

Using Prior Knowledge Before you read, write your definition of each vocabulary term in the table below. After you read, write the scientific definition of each term and compare it with your original definition. For more information on this reading strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

Term	Your Definition	Scientific Definition
Acid		
Base		
Salt		

Identifying Acids (pages 240–241)

1. Define an acid. _____

Match these common acids to their uses.

Acids	Uses	
2. acetic acid	a. Fertilizer production	
3. sulfuric acid	b. Carbonated beverages	
4. hydrochloric acid	c. Vinegar	
5. carbonic acid	d. Car batteries	
6. nitric acid	e. Digestive juices in stomach	
7. Describe some general properties of acids.		

8. Place the following substances in the correct column in the table: lemons, vinegar, grapefruit, sour milk, tomatoes.

Foods Containing	Foods Containing	Foods Containing
Acetic Acid	Citric Acid	Butyric Acid

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Name		Class	Date
Chapter 8 Solu	ıtions, Acids, and Bas	es	
9. The reaction b	petween an acid and a	a metal can be classified as	s a(n)
10. Explain why	an indicator is useful.		
dentifying B	ases (pages 242-24	43)	
11. Define a base			
	lcium hydroxide, ma	omplete the chart: alumin gnesium hydroxide, and	um
Nama			
Name	Formula NaOH	Uses Drain cleaner, soap produ	ction
	Mg(OH) ₂	Antacid, laxative	Ottori
	Ca(OH) ₂	Concrete, plaster	
	Al(OH) ₃	Deodorant, antacid	
hydrangea fro	om pink to blue?	basic solutions generally ar	
15. Is the following blue.	ng sentence true or fa	lse? Bases turn red litmus	paper
Neutralizatio	on and Salts (pag	e 244)	
16. The reaction b	oetween an acid and a	a base is called	·
17. Describe how	a salt can be produce	ed by a chemical reaction.	
	ical equation describi um hydroxide and hy	ng the neutralization reac ydrochloric acid.	tion
Proton Dono	rs and Accepto	rs (page 245)	
	described as proton _ as proton	; base;	es can
		n water, which reactant is ne proton acceptor?	