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## Directed Reading for Section 3 - Acids, Bases, and **Salts**

### **Section 4** • Strength of Acids and Bases

**Directions:** Match the description in the first column with the term in the second column by writing the correct letter in the space provided.

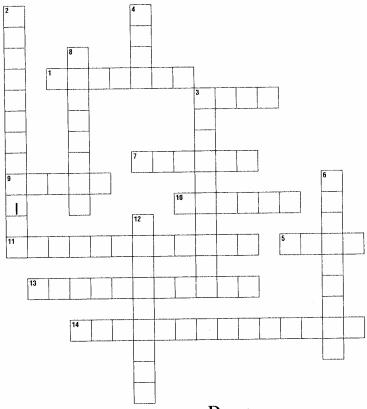
Column 1	Column II	
1. hydroxide ion	a. acid	
2. an organic compound that changes color in an	<b>b.</b> base	
acid or a base	<b>c.</b> strong acid	
3. a term for a solution with pH 7	<b>d.</b> dilute	
4. the point at which a base permanently changes the color of an acid solution	e. indicator	
<b>5.</b> a solution of known concentration used in the	f. pH	
process of titration	<b>g.</b> standard solution	
6. a term that considers the ratio of solute to	<b>h.</b> salt	
solventin a solution	i. endpoint	
7. a substance that produces hydrogen ions in solution	j. neutralization	
<b>8.</b> a reaction that produces a salt and water	<b>k.</b> titration	
9. a term that refers to the concentration of an	<b>l.</b> concentration	
acid or a base	m. neutral	
10. a term that indicates the acidity of a solution	<b>n.</b> OH <sup>-</sup>	
11. a substance that produces hydroxide ions in solution		
12. a process that uses a solution of known concentration to determine the concentration of another solution	ion	
13. an acid that ionizes almost completely in solution		
<b>14.</b> a compound formed when negative ions from an accombine with positive ions from a base	cid	



# Key Terms Solutions, Acids, and Bases

**Directions:** *Use the following terms to complete the crossword puzzle.* 

alloy	concentrated	solution	solvent	ı	dissociation
acid	base	indicator	titration	salt	
solute	dilute	electrolyte	neutralization		solubility



### Across

- 1. substance doing the dissolving
- **3.** compound formed when negative ions from acid combine with positive ions from base
- **5.** substance that produces hydrogen ions in solution
- 7. substance being dissolved
- 9. solid solution formed by heating metals
- **10.** process that affects weakness or strength of solution
- 11. process by which particles in crystalline solids separate and draw into solution
- **13.** substance that separates into ions or forms ions in a water solution
- **14.** chemical reaction between acid and base that takes place in water solution

### Down

- **2.** a high ratio of solute to solvent in a solution
- 3. maximum amount of solute that can be dissolved in given amount of solvent

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- **4.** substance that forms hydroxide ions in solution
- **6.** organic compound that changes color in acid or base
- **8.** mixture that has same composition, color, density, and taste throughout
- 12. process used to determine concentration of a solution by using a solution of known concentration