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CHAPTER 12 **STUDY GUIDE**

Section 12.4 Neutralization
In your textbook, read about neutralization and titration.

For each item in Column A, write the letter of the matching item in Column B.

Column A	Column B
1. A chemical dye that changes color based on the pH of a solution	a. acid-base indicator
2. A method for using a neutralization reaction to determine the concentration of a solution	b. end point
3. A reaction in which an acid and a base react to produce a salt and water	c. equivalence point
4. A solution of known concentration	d. neutralization
5. An ionic product of an acid-base reaction	e. salt
6. The point in a titration in which an indicator changes color	f. standard solution
7. The stoichiometric point of a titration	g. titration

Complete the following table, indicating the formula and name of the salt formed by a neutralization reaction between the listed acid and base.

Acid	Base	Salt formula	Salt name
8. HCl	KOH	KCl	potassium chloride
9. H_2SO_4	$Mg(OH)_2$		
10. H_3PO_4	NaOH		
11. HNO_3	$Fe(OH)_2$		
12. $H_2PO_4^-$	$Ca(OH)_2$		

In the space at the left, write 1 through 4 to show the correct sequence of the steps in performing a titration using a pH meter. Then, write 5 through 8 to sequence the steps used to calculate the concentration of the unknown solution.

Sequence of Steps

13. Continue adding the standard solution to the solution of unknown concentration until the equivalence point is reached.
14. Fill a buret with the standard solution.
15. Start adding the standard solution slowly, with mixing, to the solution of unknown concentration, reading the pH at regular intervals.

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