Name:	Off. Class:	Per:	Date:	
Teacher:	Neutralization Practice			Chemistry
1. Which equation represents neutralization? A) $6Li(s) + N_2(g) \rightarrow 2Li_3N(s)$ B) $2Mg(s) + O_2(g) \rightarrow 2MgO(s)$ C) $2KOH(aq) + H_2SO_4(aq) \rightarrow K_2SO_4(aq) + 2H_2C$ D) $Pb(NO_3)_2(aq) + K_2CrO_4(aq) \rightarrow 2KNO_3(aq) + $	$O(\ell)$ - PbCrO <sub>4</sub> (s)			
2. Which type of reaction occurs when an Arrhe an Arrhenius base to form a salt and water?	nius acid reacts with			_
A) combustionB) decompositiC) neutralizationD) saponification2Which wild and have matched for a set of the s	on on			
<ul> <li>A) sulfuric acid and sodium hydroxide</li> <li>B) sulfuric acid and potassium hydroxide</li> <li>C) sulfurous acid and sodium hydroxide</li> <li>D) sulfurous acid and potassium hydroxide</li> <li>4. What are the products when potassium hydroxide</li> </ul>	xide reacts with			
hydrochloric acid? A) KH(s), Cl <sup>+</sup> (aq), and OH <sup>-</sup> (aq) B) K(s), Cl <sub>2</sub> (g), and H <sub>2</sub> O( $\ell$ ) C) KCl(aq) and H <sub>2</sub> O( $\ell$ ) D) KOH(aq) and Cl <sub>2</sub> (g)				
5. Which compound is produced when HCl(aq) Ca(OH) <sub>2</sub> (aq)?	is neutralized by			
A) CaCl <sub>2</sub> B) CaH <sub>2</sub> C) HClO D) He	C1O2			
<ul> <li>6. Which solution reacts with LiOH(aq) to produce</li> <li>A) KCl(aq)</li> <li>B) CaO(aq)</li> <li>C) NaOH(aq)</li> <li>D) H<sub>2</sub>SO<sub>4</sub>(aq)</li> </ul>	uce a salt and water?			
7. Which salt is produced when sulfuric acid and react completely?	d calcium hydroxide			
<ul><li>A) CaH<sub>2</sub></li><li>B) CaO</li><li>C) CaS</li><li>D) Ca</li><li>8. Which word equation represents a neutralizat</li></ul>	aSO4 ion reaction?			
A) base + acid $\rightarrow$ salt + water B) base + salt $\rightarrow$ water + acid C) salt + acid $\rightarrow$ base + water D) salt + water $\rightarrow$ acid + base				
9. What are the products of a reaction between H HCl(aq)?	KOH(aq) and			
A) H2 and KClOB) H2O and KCC) KH and HClOD) KOH and H	Cl			

10. Base your answer to the following question on the information below and on your knowledge of chemistry.

 $A_{\rm NaOH(aq)} \ \text{solution and an acid-base indicator are used to determine the molarity of an $\rm HCl(aq)$ solution. A 25.0-milliliter sample of the $\rm HCl(aq)$ is exactly neutralized by 15.0 milliliters of 0.20 M $\rm NaOH(aq)$.}$ 

Complete the equation for the neutralization reaction that occurs, by writing a formula for *each* product.

 $HCl(aq) + NaOH(aq) \rightarrow \_\_\_\_+\_\_\_\_$ 

11. Base your answer to the following question on the information below and on your knowledge of chemistry.

In a titration, 50.0 milliliters of 0.026 M HCl(aq) is neutralized by 38.5 milliliters of KOH(aq).

Complete the equation for the neutralization by writing the formula of the missing product.

 $\text{KOH}(\text{aq}) + \text{HCl}(\text{aq}) \rightarrow \_\_\_\_(\text{aq}) + \text{H}_2\text{O}(\ell)$ 

12. Base your answer to the following question on the information below.

 $\label{eq:calculation} \begin{array}{l} \mbox{Calcium reacts with water. This reaction is represented by the balanced equation below. The aqueous product of this reaction can be heated to evaporate the water, leaving a white solid, Ca(OH)(s). \\ \mbox{Ca}(s) + 2 H_2 O(\ell) \rightarrow Ca(OH)_2(aq) + H_2(g) \end{array}$ 

Write the chemical name of the base produced in the reaction.