Name:			Date:				
Chemical I	Reactions Pr	actice Test			_		
<ul> <li>Get</li> <li>Dete</li> <li>Ider</li> <li>Expl</li> <li>Writ</li> <li>Expl</li> <li>Bala</li> <li>Mate</li> <li>Dete</li> <li>Prec</li> <li>Expl</li> </ul>	information fro ermine charges atify, name and lain the difference word and skelain the law of conce chemical each acid formula erentiate between the product lain ways to mainten ermine if somet lain ways to mainten ermine ermin	write formulas for conce between ionic and eleton equations, inclusionservation of mass quations s with their names en acids and bases us	nd write in ionic nic compounds, valent compour covalent compo ding states sing their physic neutral using p	including rads ounds al and che oH or hydro	ogen ion concentration	ic ions	
1. Fill in this	s chart:						
Class	of Element	Chlorine	Magne	sium	Nitrogen	]	
	non-metal, semi- metal)					_	
Aton	nic Number						
Ato	omic Mass						
Lew	is Diagram						
Ioni	c Notation						
Ic	on Name						
2. Write the formulas for these compounds: a. sodium chloride			e.	calcium	hydroxide		
b. tetraphosphorus decoxide			f.	f. dinitrogen trioxide			
c. amm	onium sulfate		g.	g. lead(II) phosphate			

h. sulfur trioxide

d. potassium nitrate

- 3. Name the following compounds:
  - a. CO<sub>2</sub>

e. SnSO<sub>4</sub>

b. ZnCl<sub>2</sub>

f. AgNO<sub>3</sub>

c. BF<sub>3</sub>

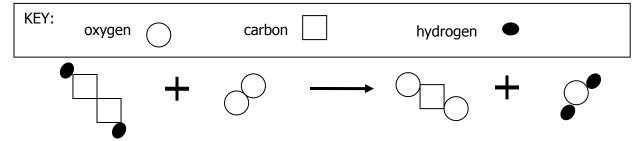
g. ICl

d. FeO

- h. KClO<sub>3</sub>
- 4. How are ionic and covalent compounds different...
  - a. In how they form?
  - b. In what they contain?
  - c. In how they are <u>named</u>?
- 5. Use the equation below to answer the questions.

2 Na (s) + 2 H<sub>2</sub>O (l) 
$$\rightarrow$$
 2 NaOH (aq) + H<sub>2</sub> (g)

- a. Circle the compound that does not have a coefficient.
- b. Draw a triangle around the subscript in water.
- c. Draw a rectangle around the products.
- d. Put a star above the compound that is dissolved in water.
- 6. Below is a representation of a chemical reaction.



- a. Write a word equation for this reaction.
- b. Write a skeleton equation for this reaction.
- c. The way this reaction is drawn above, it does not follow the law of conservation of mass. Explain why not, then write the reaction so that mass is conserved.

Name:		Date: Date: Date:								
/.	else. You test it and find the following:									
	It turns blue litmus red, and has no effect on red litmus.									
	<ul> <li>It has a sour smell.</li> </ul>									
	a.	Identify whether the liquid is an acid, a base or something else and how you know.								
	h	\//h	at would you c	lo to clean un t	this spill? Be specific!!					
	υ.	VVII	at would you c	io to clear up	uns spin: De specific:					
8.	8. Solution A has a pH of 12.5. Solution B has a pH of 3.2.									
		a.	Which solution	is sulturic acio	id? Which is sodium hydroxide?					
		b.	Circle the form	nula that repre	esents sulfuric acid:					
			H <sub>2</sub> S	H <sub>2</sub> SO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>					
			TC.1							
		C.		If these solutions are mixed together, write the balanced chemical reaction for the neutralization reaction.						
			ricuti diization	reaction.						
			<b></b>							
		a.	endothermic r		ed together, the products feel warm. Is this an exothermic or					
			Chaothernic I	caction:						
0	Vai		roading colid	maanaaium (I	'Ma) with hydrochloric acid in the lab. Evaloin three ways you can					
<ol><li>You are reacting solid magnesium (Mg) with hydrochloric acid in the lab. Explain two ways yo make this reaction occur at a faster rate.</li></ol>										
			/ 6464.611 66	24. 40 4 14000						