Name:	Date	:	Class Notes
Writing Chemical Equations			- Andrew
based on the equations	nists describe chemical reactions we empirical evidences recorded in tare symbolic representations of a clow chemists to make several pred	the laboratory. Chemical chemical reaction. These ch	
Writing a	Chemical Equation		
A chemical e	equation reveals three things abou	t a chemical reaction.	
1. the	substances that react.		_
2. the	substances formed.		_
	relative amounts of substances involved.		_
	of a chemical equation is simple, nents, writing chemical formulas a		th the periodic
SYMBOLS:			
	(g) =	→ = <u> </u>	
	(l) =	Δ =	
	(s) =	+ =	
	(aq) =	↑ =	
Steps to wr	iting chemical equations:		
2. Wi 3. Wi	entify the reactants and the produrite formulas for the reactants and rite the reactants on the left, the petween the two sides.	the products	ce an arrow
Example:	Example: Aluminum reacts with oxygen to yield aluminum oxide		
	$\frac{\textbf{Reactants}}{\text{aluminum}} = \text{Al}$ $\text{oxygen} = \text{O}_2$	$\frac{\textbf{Products}}{\text{aluminum oxide}} = \text{Al}_2\text{O}_3$	

 $AI_{(s)} + O_{2(g)} \rightarrow AI_2O_{3(s)}$

Practice

dinitrogen pentoxide re	acts with water to produce nitric acid
<u>Reactants</u>	<u>Products</u>
Equation:	
sodium hydrogen carbo dioxide	onate produces sodium carbonate, water and carbon
<u>Reactants</u>	<u>Products</u>
Equation:	
lead (II) nitrate is mixed potassium nitrate	d with potassium iodide to produce lead (II) iodide and
<u>Reactants</u>	<u>Products</u>
Equation:	

"I hope I shall always possess firmness and virtue enough to maintain what I consider the most enviable of all titles, the character of an honest man." -- George Washington