

Name _____

Period _____

Homework on Word Equations

Part I: Answer the following general questions about chemical equations.

- 1) What symbol means gas in a chemical equation?

- 2) What symbol means yields in a chemical equation?

- 3) What symbol means solids in a chemical equation?

- 4) What symbol means liquid in a chemical equation?

- 5) What symbol means aqueous in a chemical equation?

- 6) What is an exothermic reaction?

- 7) What is an endothermic reaction?

- 8) What are the names of the numbers that go in front of a chemical symbol in a balanced chemical equation?

- 9) What does a chemical reaction represent?

- 10) What word describes the substances to the left side of an arrow in a chemical reaction?

- 11) What about the ones on the right side?

Part II: Write out balanced chemical equations for the following reactions:

1) hydrogen gas + nitrogen gas combine to form ammonia gas

2) potassium chlorate decomposes to give potassium chloride and oxygen gas

3) calcium oxide + water combine to form calcium hydroxide

4) sodium hydroxide + hydrochloric acid(HCl) make sodium chloride + water

5) magnesium bromide + chlorine gas gives magnesium chloride + bromine gas

6) sodium chloride + sulfuric acid (H_2SO_4) make sodium sulfate + hydrogen chloride

7) aluminum + iron(III) oxide produce aluminum oxide + iron

8) silver (I) nitrate + nickel swap ions to make nickel (II) nitrate + silver

9) zinc reacts with sulfur to form zinc(II) sulfide

10) potassium chloride and silver(I) nitrate yields silver (I) chloride and potassium nitrate