

## PRACTICE QUIZ ON CHEMICAL REACTIONS

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Be Sure to make sure your compounds are correct, the equation is balanced and all states of matter are given.

**Single Replacement – Use the activity series to decide if the reaction will occur first.**

1. Nickel is mixed with magnesium chloride.
2. In water potassium reacts with aluminum nitrate.

**Double Replacement – Write the complete chemical equation plus the net ionic equation.**

3. Aqueous solutions of potassium iodide and Silver nitrate are mixed.
4. Aqueous solutions of Manganese (V) chloride and sodium carbonate are mixed.

**Synthesis**

5. Aluminum and Sulfur react to produce Aluminum Sulfide.
6. The gases nitrogen dioxide and oxygen react to produce dinitrogen pentoxide.

**Decomposition**

7. Heating sodium hydrogen carbonate (s) produces sodium carbonate (s) carbon dioxide, and water.
8. Nickel (II) hydroxide (s) decomposes to produce Nickel (II) oxide and water.

## Combustion

9. The combustion of butane  $C_4H_{10}$
10. The combustion of Carbon yields carbon dioxide.

## Mixed Review (Identify the type of Reaction and Write the Complete Balanced Equations)

11. Aluminum and sulfur react to produce aluminum sulfide.
12. Sodium reacts with water.
13. The combustion of propane  $C_3H_8$
14. Chlorine reacts with Hydrobromic acid.
15. Sulfuric acid neutralizes potassium hydroxide. (Both reactants are (aq))
16. The reaction between Ammonium phosphate and chromium (III) bromide. Be sure to include the net ionic equation as well. (aq)
17. Hydrogen peroxide  $H_2O_2$  decomposes into water and oxygen gas.