

Name: _____

Decomposition and Synthesis Reactions Worksheet

1. Complete the word equation
2. Write formulas for each reactant and product
3. Balance the reaction
4. Identify the type of reaction in the blank to the right (Single Replacement, Double Replacement, Synthesis/combination, Decomposition)

- 1) Sodium + Oxygen → _____
- 2) Lithium + Sodium chloride → _____
- 3) Sodium chloride → _____
- 4) Potassium chlorate → _____
- 5) Copper (II) + Oxygen → _____
- 6) Aluminum + Hydrogen chloride → _____
- 7) Magnesium + Oxygen → _____
- 8) Silver + Chlorine → _____
- 9) Aluminum oxide → _____
- 10) Hydrogen carbonate + Sodium → _____
- 11) Sodium chloride + Silver nitrate → _____
- 12) Hydrogen + Oxygen → _____
- 13) Potassium iodide + Chlorine → _____
- 14) Aluminum + Hydrogen chloride → _____
- 15) Calcium carbonate → _____
- 16) Iron (IV) sulfide + Oxygen → _____
- 17) Potassium + Chlorine → _____
- 18) Sodium chloride → _____
- 19) Potassium hydroxide + Hydrogen nitrate → _____
- 20) Calcium + Sulfur → _____
- 21) Potassium + Silver chloride → _____
- 22) Iron + Sulfur → _____
- 23) Hydrogen carbonate + Sodium → _____
- 24) Barium oxide + Hydrogen sulfate → _____
- 25) Iron (II) oxide → _____