Directions: 1) Substitute symbols and formulas for words.

- 2) Predict the products.
- 3) Include abbreviations to denote physical state.
- 4) Balance each equation.
- 1. When heated, solid silver oxide decomposes into its elements.

2. Solutions of potassium chloride and silver nitrate are mixed to produce a potassium compound, which dissolves, and a silver compound, which is insoluble.

3. Write the equation for the synthesis reaction between magnesium metal and oxygen gas.

4. A piece of copper metal is placed into a solution of zinc nitrate.

5. Write the equation for the combustion of propane gas.