

Name:

Date:

- Directions: a) Substitute symbols and formulas for names being sure to denote phases. b) Balance each equation.
  - c) Identify the type equation as synthesis, decomposition, single replacement, double replacement, or combustion.
  - 1. Aluminum metal reacts with aqueous zinc chloride to produce zinc metal and aqueous aluminum chloride.

Type:

2. Iron and sulfur combine and form iron (II) sulfide.

Туре:

3. Solid diphosphorus pentoxide can be produced from the elements oxygen and phosphorus. (Note: Solid elemental phosphorus contains 4 atoms per molecule; it is written P<sub>4</sub>.)

Туре:

4. When solid potassium nitrate is heated, it forms solid potassium nitrite and oxygen gas.

Туре:

5. When hydrogen sulfide gas is passed over solid hot iron (III) hydroxide, it reacts to form solid iron (III) sulfide and water vapor.

Type: