

Name: _____
Date: _____ Per: _____

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Hon/Chemistry

Formula Balancing WS 1

Write a formula equation for the following word equations. Predict the products when none are given. Don't forget to **balance** and include **state symbols**.

1. Aqueous barium chloride reacts with aqueous aluminum sulfate to form an aqueous solution of aluminum chloride and a barium sulfate precipitate.

Balanced Equation:

2. Lithium and oxygen undergo a synthesis reaction when heated.

Balanced Equation:

3. Solid chromium (III) oxide decomposes into its elements when heated.

Balanced Equation:

4. Liquid pentane (C₅H₁₂) burns in the presence of oxygen.

Balanced Equation:

5. Barium metal reacts vigorously with water in a single displacement reaction. HINT: treat water as H-OH.

Balanced Equation:

6. Aqueous iron(III) nitrate and aqueous lithium hydroxide react to form a red precipitate, iron(III) hydroxide, and an aqueous solution of lithium nitrate.

Balanced Equation: