

Name: _____ Date: _____
IPC

Warm up 77

Describe the following:

chemical equation -

Write equations for the following:

1. Solid aluminum reacts with oxygen gas to yield aluminum oxide powder.
2. Calcium metal reacts with fluorine gas to produce solid calcium fluoride.
3. Sulfur, S₈, combines with oxygen gas at high temperatures to form sulfur dioxide gas.
4. Aqueous potassium hydroxide reacts with aqueous phosphoric acid to yield aqueous potassium dihydrogen phosphate and water.

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Write a balanced chemical equation and classify the following chemical reactions.

- _____ 1. potassium chlorate (heated) yields potassium chloride and oxygen
- _____ 2. copper and acetic acid react to form copper(II) acetate and hydrogen gas
- _____ 3. iron(III)chloride and potassium hydroxide yield potassium chloride and iron(III)hydroxide
- _____ 4. zinc and sulfuric acid yields zinc sulfate and hydrogen

Predict the products, write a balanced equation and classify the reaction.

5. calcium phosphate plus aluminum sulfate yields