

Blizzard Day #1 Due March 4th

For each of the following descriptions, write:

- The word equation
- The balanced chemical equation

If it is formed that means it is a PRODUCT!

Example:

Potassium reacts with water yielding potassium hydroxide and hydrogen

Word equation : Potassium + Water -> Potassium hydroxide + Hydrogen

Balanced chemical equation: $2K + 2 H_2O \rightarrow 2 KOH + H_2$

1. Solid aluminum chloride is formed when elemental aluminum is burned in chlorine gas.

2. Water and nitrogen gas are formed from the combustion of hydrogen gas and nitrogen monoxide gas.

3. Aqueous sodium chloride reacts with aqueous sulfuric acid (H_2SO_4) to produce a solution of sodium sulfate and hydrogen chloride gas.

4. When a solution of calcium chloride reacts with a solution of sodium hydroxide, calcium hydroxide precipitate is formed in a solution of sodium chloride.

5. Barium sulfate precipitate is formed in a solution of sodium nitrate when a solution of barium nitrate is added to a solution of sodium sulfate.