

Balancing Chemical Equations #3

Write Balanced Equations and name the reaction type for the following reactions;

- 1) When heated, calcium carbonate decomposes to form calcium oxide and carbon dioxide
- 2) Barium oxide reacts with water to form barium hydroxide
- 3) Zinc reacts with copper (II) nitrate to form zinc nitrate and copper.
- 4) Propane (C_3H_8) is burned with oxygen to produce water vapor and carbon dioxide
- 5) When heated, calcium sulfite decomposes to form calcium oxide and sulfur dioxide.
- 6) Iron reacts with sulfuric acid to form iron (III) sulfate and hydrogen gas.
- 7) Manganese (II) iodide decomposes when exposed to light to form manganese and iodine.
- 8) Dinitrogen pentoxide reacts with water to produce nitric acid
- 9) Magnesium reacts with titanium (IV) chloride to produce magnesium chloride and titanium
- 10) Benzene (C_6H_6) is burned in oxygen to produce carbon dioxide and water vapor.
- 11) Calcium hydride reacts with water to produce calcium hydroxide and hydrogen gas.
- 12) Sulfuric acid reacts with potassium hydroxide to produce potassium sulfate and water.