



Chemistry Content Standards:

Standard 3a: Students know how to describe chemical reactions by writing balanced equations.

- 11.2.1 Describe the five general types of reactions
- 11.2.2 Predict the products of the five general types of reactions

Stamp:

Balancing Equations
WB 11.1
Symbols Used in Equations

DEMO:

Four Types of reactions

- **Magnesium Burn in air (Combination)**
- **Heating Mercury (II) Oxide (Decomposition)**
- **Potassium in Water (Single Replacement)**
- **Barium Chloride and Potassium Carbonate (Double Replacement)**
- **Methane Gas Burn: (Combustion)**

Lecture:

11.2 Types of Chemical Reactions
PPT Reaction Types

- Synthetic (Composition) $A + X \rightarrow AX$
- Decomposition $AX \rightarrow A + X$
- Single Replacement $AX + B \rightarrow AB + X$
- Double Replacement $AX + BY \rightarrow AY + BX$
- Combustion $(C_xH_y) + O_2 \rightarrow CO_2 + H_2O$

Classwork:

Reaction Types A
Reaction Types B

Homework:

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WB 11.2

Bring Lab Supplies for S'Mores Lab