



Chemistry Content Standards:

SEP a,6; DCI PS1.A, PS2.B; CCC1

Students construct explanations about properties of matter in terms of particle interactions and how these affect properties of the material made up of these particles.

Stamp:

Balancing Equations
Balancing Equations 2
WB 242

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:

WB 243-244

Bring Lab Supplies for S'Mores Lab