p. 241 #1-3

Chemical Reaction Topics

- Balancing chemical equations
- Law of Conservation of Mass
- Types of Reactions
- Translating word equations

Types of Reactions

Combustion

element/compound
$$+ O_2 \Rightarrow$$
 oxides $+$ energy Ex. $C_3H_8 + O_2 \Rightarrow CO_2 + H_2O$

Synthesis

element + element \Rightarrow compound Ex. Na + Cl₂ \Rightarrow NaCl

Decomposition

compound \Rightarrow element + element Ex. ZnO \Rightarrow Zn + O₂

Single Replacement

element + compound \Rightarrow element + compound Ex. Zn + NaCl \Rightarrow Na + ZnCl₂

Double Replacement

compound + compound \Rightarrow compound + compound Ex. ZnO + NaCl \Rightarrow Na₂O + ZnCl₂

Review Worksheet

p. 247 #1-6