Chapter 3 Chemical Reaction

3.1 Recognizing and Understanding Chemical Changes

Definitions:

- Chemical change
- Kinetic molecular theory
- Collision-reaction theory
- Reactants
- Word equation
- Chemical equation
- Coefficient
- Catalytic converter
- Catalyst

A Mechanism for Chemical Change

- KMT
- Collision-reaction theory

Representing Chemical Change

- Word equation:
  - E.g. Hydrogen gas + oxygen gas → water vapour
- Chemical equation:
  - E.g. $H_{2(g)} + O_{2(g)} \rightarrow H_2O_{(g)}$
- Balanced chemical equation
  - E.g. $2\ H_{2(g)} + O_{2(g)} \rightarrow 2H_2O_{(g)}$

Catalysts and Collisions

- A substance that causes a reaction to speed up.

Homework

- Practice Questions: 1,2,3,4,5,6,7
- Section Questions: 1