

# CHEMISTRY MODULE 3

## 1. CHEMICAL REACTIONS

**Inquiry Question:** What are the products of a chemical reaction?

A. Investigate a variety of reactions to identify possible indicators of a chemical change

- i. A significant temperature change
- ii. Formation of a solid in a solution
- iii. Production of an odor
- iv. Production of a gas

B. Use modelling to demonstrate:

- i. The arrangement of atoms to form new substances
  1.  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$
- ii. the conservation of atoms in a chemical reaction
  1. "As the number of atoms is unchanged, the mass of the products must equal the mass of the reactants". Balancing equations adjusts the ratio of each substance until the number of reactant atoms equals the number of product atoms.

C. Conduct investigations to predict and identify the products of a range of reactions, for example:

- i. Synthesis:
  1.  $A + B \rightarrow AB$ , a compound is formed from elements or from other, usually smaller compounds
- ii. Decomposition:
  1.  $AB \rightarrow A + B$ , a single reactant breaks down to form two or more products
- iii. Combustion:
  1.  $A + \text{O}_2 \rightarrow \text{AO}_x$ , the reactant combines with oxygen to produce oxides, which releases energy.
- iv. Precipitation:
  1.  $AB_{(aq)} + CD_{(aq)} \rightarrow AD_{(aq)} + BC_{(s)}$ , two solutions are mixed and a solid is formed.
- v. Acid/Base Reactions and Acid/Carbonate Reactions:
  1. Acid + reactive metal  $\rightarrow$  salt + hydrogen, acid + metal hydroxide  $\rightarrow$  salt + water, acid + metal carbonate  $\rightarrow$  salt + water + carbon dioxide, acid + metal hydrogen carbonate  $\rightarrow$  salt + water + carbon dioxide

# Conquering Chemistry Hsc Module 3

**Matrix Education**



### **Conquering Chemistry Hsc Module 3:**

**Australian National Bibliography** ,1988      *Conquering Chemistry* Debra Smith,2003      *NSW Chemistry* Marilyn Schell,Margaret Hogan,2018      **Industrial chemistry. Module 3 & 4** ,1993      **AS Chemistry Unit 3** Neil Goldie,2002

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