

CHAPTER OVERVIEW

10: Chemical Reactions

We first introduced the idea of a chemical change in a previous chapter. This idea can also be referred to as a chemical reaction. We use chemical equations to keep track of these chemical changes. In the first 3 sections of this chapter we introduce ideas about chemical equations that will be important to understand in later chapters. In section 5.4 and 5.5 we introduce ideas related to categorizing and predicting reactions. Categorizing and predicting reactions will both show up in later chapters. This is your first glimpse of something that will continue to be important going forward.

[10.1: Word Equations](#)

[10.2: Chemical Equations](#)

[10.3: Balancing Equations](#)

[10.4: Types of Reactions](#)

[10.4.1: Combination Reactions](#)

[10.4.2: Decomposition Reactions](#)

[10.4.3: Combustion Reactions](#)

[10.4.4: Single Displacement/Replacement Reactions](#)

[10.4.5: Double Displacement/Replacement Reactions](#)

[10.5: Predicting Reactions - Single and Double Displacement Reactions](#)

[10.5.1: Precipitation Reactions](#)

[10.5.2: Acid-Base and Gas Evolution Reactions](#)

[10.6: Writing Chemical Equations for Reactions in Solution- Complete Chemical, Complete Ionic, and Net Ionic Equations](#)

[10.7: Oxidation and Reduction- Some Definitions](#)

[10.8: Keeping Track of Redox Reactions](#)

[10.8.1: Oxidation States - Electron Bookkeeping](#)

[10.8.2: Determining Redox Reactions from Oxidation States](#)

[10.8.3: Balancing Redox Equations](#)

[10.9: Applications of Redox Reactions](#)

[10.9.1: The Activity Series- Predicting Spontaneous Redox Reactions](#)

[10.9.2: Batteries- Using Chemistry to Generate Electricity](#)

[10.9.3: Corrosion - Undesirable Redox Reactions](#)

[10.E: Chemical Reactions \(Exercises\)](#)

This page titled [10: Chemical Reactions](#) is shared under a [mixed](#) license and was authored, remixed, and/or curated by [Anonymous](#).