

# 8<sup>th</sup> Grade Study Guide

## Chapter 21

### Chemical Reactions

#### CHEMICAL CHANGES Section 1

- Identify a chemical reaction and label its parts and symbols.
- Define the law of conservation of mass and Lavoisier's contribution.
- Identify the symbols used in chemical equations.
- Delineate between coefficients and subscripts.

#### CHEMICAL EQUATIONS Section 2

- Properly balance a chemical equation.

#### CLASSIFYING CHEMICAL REACTIONS Section 3

- Identify and define synthesis and decomposition reactions.
- Identify and define single and double displacement reactions.
- Show how the activity series can be used to make predictions in displacement reactions.

#### CHEMICAL REACTIONS AND ENERGY Section 4

- Define exergonic and endergonic reactions.
- Explain how endothermic and exothermic reactions are subsets of endergonic and exergonic reactions, respectively.
- Define catalyst and inhibitor.

