

# **Unit 7 (Chapter 8): Chemical Equations & Reactions**

(pgs. 252-287)

## **I. Describing Chemical Reactions**

1. The Nature of Chemical Rxns.

A. Chemical Rxns.

B. The Reason for Rxns.

C. Evidence of a Chemical Rxn.

2. Chemical Equations (Eqns.)

A. Chemical Eqn.

B. Word Eqn.

C. Formula Eqn.

D. Balanced Eqn.

E. 4 Steps to Balancing an Eqn.

F. Eqn. Examples

➤ *Practice Problems:*

- p.260 #1-3,
- p. 264 # 1-2,
- p.266 #1

➤ *Section 1 Formative Assessment:* p. 266 # 1-5

## **II. 5 Types of Chemical Reactions**

3. 5 Types Of Chemical Rxns.

4. Direct Combination (Synthesis) Rxns.

A. Defn.

B. General forms

C. Example

D. Predicting Synthesis Rxns.

5. Decomposition Rxns.

A. Defn.

B. General forms

C. Example

D. Predicting Decomposition Rxns

6. Single-Replacement Rxns. (Sgl. Displacement Rxns.)

A. Defn.

B. General forms

C. Examples

D. Predicting S.R. Rxns

7. Double-Replacement Rxns. (Dbl. Displacement Rxns.)

A. Defn.

B. General forms

C. Example

D. Predicting Decomposition Rxns

8. Combustion Rxns.

A. Defn.

B. General forms

C. Examples

D. Predicting Decomposition Rxns

➤ *Section 2 Formative Assessment:* p.276 #1-4

➤ *Section 3 Formative Assessment:* p.279 #1-4

## **Chapter Review Problems**

End of Chapter Review p. 283 #1-47

Various Online Resources: <https://bit.ly/2KEFLGk>