

LESSON 17: CHEMICAL REACTION TYPES AND PREDICTING PRODUCTS

Student Learning Objectives

- Determine different chemical reaction types by looking at the reactants and products.
- Predict products of chemical reactions based on reaction types.

Key Vocabulary Terms

- Synthesis
- Decomposition
- Single Displacement
- Double Displacement
- Combustion
- Redox Reaction
- Acid/Base Reaction
- Precipitation Reaction



Key Equation

None... for this lesson.



17.1 Famous Five - Reaction Types

There are literally millions of different chemical reactions that occur every day throughout our world. Most of them occur without us realizing it. Scientists classify chemical equations into 5 specific groups. These groups help us determine what products may be produced from certain types of chemical reactions. We will look at synthesis, decomposition, single displacement, double displacement, and organic combustion reactions. Once we finish discussing these reactions, we will analyze some other types of chemical reactions which we can classify.

Synthesis reactions occur when two or more substances combine to form one new compound. They usually form by the general equation below.



A and B can be used to represent any element or compound. The above equation is just a general equation to show how the reactants become the specified products. Several examples of synthesis reactions are listed below.



Synthesis Reaction



Reactants

Product

Heath Chemistry Learning Guide Predicting Gas Behavior

KJ Lindholm-Leary



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