

2.4 Chemical Reactions and Enzymes

Lesson Objectives

- ☐ Explain how chemical reactions affect chemical bonds.
- ☐ Describe how energy changes affect how easily a chemical reaction will occur.
- ☐ Explain why enzymes are important to living things.

Lesson Summary

Chemical Reactions Everything that happens in an organism is based on chemical reactions. A **chemical reaction** is a process that changes one set of chemicals into another set of chemicals.

- ▶ The elements or compounds that enter into the reaction are the **reactants**.
- ▶ The elements or compounds produced by the reaction are the **products**.
- ▶ Chemical reactions involve changes in the chemical bonds that join atoms in compounds.

Energy in Reactions Some chemical reactions release energy; others absorb energy.

- ▶ Chemical reactions that release energy often occur on their own.
- ▶ Chemical reactions that absorb energy require a source of energy. The energy needed to get a reaction started is called the **activation energy**.

Enzymes An **enzyme** is a protein that acts as biological catalyst. A **catalyst** is a substance that speeds up the rate of a chemical reaction. Catalysts work by lowering a reaction's activation energy.

- ▶ In an enzyme-catalyzed reaction, the reactants are known as **substrates**. Substrates bind to a part of an enzyme called the active site and remain bound to the enzyme until the reaction is complete, when the products are released.
- ▶ Temperature, pH, and regulatory molecules can affect the activity of enzymes.

Chemical Reactions

1. What is a chemical reaction?

It is a process that changes one set of chemicals into another set of chemicals.

2. Complete the table about chemicals in a chemical reaction.

Chemicals in a Chemical Reaction	
Chemicals	Definition
Reactants	<i>the elements or compounds that enter into a chemical reaction</i>
Products	<i>the elements or compounds that are produced by a chemical reaction</i>

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