

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?

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

Chemicals in a Chemical Reaction	
Chemicals	Definition
Reactants	The elements or compounds that enter into a chemical reaction
Products	The elements or compounds made by a chemical reaction

24 Chemical Reactions Enzymes Worksheet Answer Key

NARAYAN CHANDER

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