

Science Notes for Testing RAG

Photosynthesis

Photosynthesis is the process by which green plants use sunlight to synthesize foods from carbon dioxide and water. It involves chlorophyll and produces oxygen as a by-product.

Newton's Laws

Newton's First Law states that an object will remain at rest or in uniform motion unless acted upon by a force. The Second Law states that Force equals mass times acceleration ($F=ma$). The Third Law states that every action has an equal and opposite reaction.

Cell Structure

Cells are the basic unit of life. They have various organelles such as the nucleus, mitochondria, ribosomes, and endoplasmic reticulum.

Water Cycle

The water cycle describes the continuous movement of water on, above, and below the surface of the Earth. It includes evaporation, condensation, precipitation, and collection.

Acids and Bases

Acids are substances that release hydrogen ions (H^+) in solution, while bases release hydroxide ions (OH^-). The pH scale measures the acidity or alkalinity of a solution.