

Cellular Energy Study Guide

AP Biology Exam

Section 1: Photosynthesis

Introduction

- Photosynthesis** is the process by which plants and other organisms use light energy to produce glucose and oxygen from carbon dioxide and water.
- Chloroplasts** are the organelles in plant cells where photosynthesis takes place. They contain chlorophyll, the green pigment that captures light energy.
- Light-dependent reactions** are the first stage of photosynthesis, where light energy is used to produce ATP and NADPH, which are then used in the Calvin cycle.
- Calvin cycle** is the second stage of photosynthesis, where carbon dioxide is fixed into glucose using the ATP and NADPH produced in the light-dependent reactions.
- Photosynthesis equation**: $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- Factors affecting photosynthesis**: Light intensity, carbon dioxide concentration, and temperature all affect the rate of photosynthesis.
- Limiting factors** are factors that limit the rate of photosynthesis. For example, if light intensity is low, it will limit the rate of the light-dependent reactions.
- Photorespiration** is a process that occurs when the enzyme RuBisCO reacts oxygen with ribulose biphosphate (RuBP) instead of carbon dioxide, which reduces the efficiency of photosynthesis.
- C4 pathway** is a variation of the Calvin cycle that allows plants to fix carbon dioxide more efficiently in hot, dry conditions.
- C3 pathway** is the most common type of photosynthesis, where carbon dioxide is fixed directly into a three-carbon compound.
- Photoautotrophs** are organisms that can produce their own food using light energy and inorganic carbon.
- Chemosynthesis** is a process by which some bacteria produce energy by oxidizing inorganic compounds like hydrogen sulfide.

Significance

Photosynthesis

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Cellular Energy Study Guide Answer Key

Kathy Austin



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