

## The Process That Feeds the Biosphere

### 10.1 Photosynthesis converts light energy to the chemical energy of food

#### Intro

1. Distinguish autotrophic and heterotrophic nutrition.
  - Autotrophs do not derive energy from other organisms
  - Energy from the Sun or inorganic chemicals
  - Gather matter in the form of simple organic molecules
  - Includes plants, protists, and bacteria
- Heterotrophs derive energy from other organisms
  - May be carnivores, herbivores, parasites, commensals, etc.
  - Gather matter as a by-product of energy
  - Includes members of all major taxa

#### Chloroplasts: The Sites of Photosynthesis in Plants

2. Describe the structure of chloroplasts and indicate their locations within plant cells.

#### Structure

Double membrane encloses dense fluid stroma  
In the stroma are interconnected stacks of flattened

membranes

Flattened membranes = thylakoids; stacks = grana  
Chlorophyll is bound to the thylakoid membranes

Location: around the periphery of the cell

3. Explain how chloroplast structure relates to its function.
  - Dense stacks of thylakoids efficiently absorb light
  - Light energy is converted into chemical energy at the thylakoid
  - Chemical energy used to build carbohydrate in the stroma
4. Write a summary equation for photosynthesis.



#### Tracking Atoms Through Photosynthesis: Scientific Inquiry

#### Intro

#### The Splitting of Water

current

5. Explain van Niel's hypothesis and describe how it contributed to our understanding of photosynthesis.

van Niel's hypothesis

Prevailing (wrong) idea:  $\text{O}_2$  released is from  $\text{CO}_2$

van Niel's observation

Green sulfur bacteria perform photosynthesis

using  $\text{H}_2\text{S}$



iii. Hypothesis:  $\text{O}_2$  from water, not from  $\text{CO}_2$

#### Experiments



#### Explanation

In one phase of photosynthesis water is split and  $\text{O}_2$  is liberated

Glucose is built up from reduced  $\text{CO}_2$

#### Photosynthesis as a Redox Process

6. Explain the role of redox reactions in photosynthesis.

Respiration

High-energy electrons are removed from sugar

# Ap Biology Chapter 10 Notes

**DP Hallahan**



## **Ap Biology Chapter 10 Notes:**

## **Ap Biology Chapter 10 Notes** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ap Biology Chapter 10 Notes**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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