

### 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

**RS Peters**



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