

may be on the test

"once they make the sugar they get energy"

## Unit 4 Cellular Energetics

Chapter 10  
light → make  
Photosynthesis

"plants use light from the sun to make sugar"

### Introduction

**Photosynthesis** is the process that converts solar energy into chemical energy

- Directly or indirectly, photosynthesis nourishes almost the entire living world
- Autotrophs** sustain themselves without eating anything derived from other organisms
  - Autotrophs are the producers of the biosphere, producing organic molecules from CO<sub>2</sub> and other inorganic molecules
  - Almost all plants are photoautotrophs, using the energy of sunlight to make organic molecules from H<sub>2</sub>O and CO<sub>2</sub>
- Heterotrophs** obtain their organic material from other organisms
  - Heterotrophs are the consumers of the biosphere
  - Almost all heterotrophs, including humans, depend on photoautotrophs for food and O<sub>2</sub>

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

**Chloroplasts** are structurally similar to and likely evolved from photosynthetic bacteria

- The structural organization of these cells allows for the chemical reactions of photosynthesis

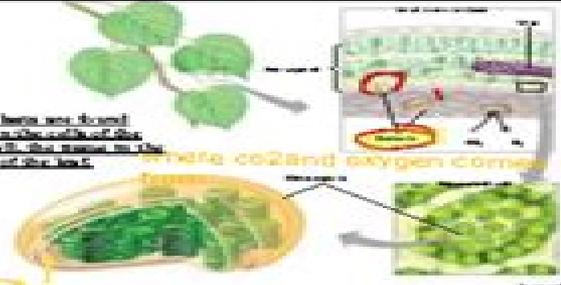


thylakoids a full stack  
stroma is the empty space

this is not part of the endome membrane system

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

- Chloroplasts are the sites of photosynthesis in plants.
  - Leaves are the major locations of photosynthesis
  - The internal color is from **chlorophyll**, the green pigment within chloroplasts
  - Light energy absorbed by chlorophyll drives the synthesis of organic molecules in the chloroplast
  - CO<sub>2</sub> enters and O<sub>2</sub> exits the leaf through microscopic pores called **stomata**
- Chloroplasts are found mainly in cells of the mesophyll, the innermost cells of the leaf
  - A typical mesophyll cell has 30–50 chloroplasts
  - The chlorophyll is in the membranes of **thylakoids**, connected sacs in the chloroplast; thylakoids may be stacked in columns called grana
  - Chloroplasts also contain **stroma**, a dense fluid



Chloroplasts are found mostly in the cells of the mesophyll, the innermost cells of the leaf

make CO<sub>2</sub> and oxygen come in and out

Stroma

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

- Tracking Atoms Through Photosynthesis
  - Photosynthesis can be summarized as the following equation:
 
$$6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Light Energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$$
  - Chloroplasts split H<sub>2</sub>O into hydrogen and oxygen, incorporating the electrons of hydrogen into sugar molecules



# Ap Biology Cellular Energetics Activity 4 Photosynthesis Answers

**Jianjun Gao**



**Ap Biology Cellular Energetics Activity 4 Photosynthesis Answers:**

The Enigmatic Realm of **Ap Biology Cellular Energetics Activity 4 Photosynthesis Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Ap Biology Cellular Energetics Activity 4 Photosynthesis Answers** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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