

AP Biology: Chapter 10

PHOTOSYNTHESIS

1. What role do autotrophs fill in the biosphere?

They produce organic molecules from CO₂ and other molecules from the surrounding environment, and are the ultimate source of organic compounds for heterotrophs

2. Indicate the role of each structure within the leaf:

- a. stomates

Stomates can close to conserve water, but can cause problems with O₂ build up and CO₂ depletion.

- b. mesophyll cells

Mesophyll cells are loosely arranged cells between bundle sheath cells and the surface of the leaf. Their purpose is to act as a gateway and storage for CO₂, storing it and pumping it into the Calvin Cycle

- c. thylakoid membranes

this is the stack of membranes where photosynthesis reactions take place

- d. stroma

a central area in the cell filled with fluid, containing the thylakoid membranes.

3. What is the source of oxygen released from photosynthesis?

It comes from the CO₂ taken in by the plant, and is separated from the carbon it's bonded to for the reaction.

4. In the overview of photosynthesis, indicate the most significant function of:

- a. Light reaction

Ap Biology Chapter 10 Photosynthesis Study Guide Answers

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Ap Biology Chapter 10 Photosynthesis Study Guide Answers:

AP Biology Study Guide Sundar Nathan,2009-11 Sundar Nathan received a Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

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