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Chapter 10: Photosynthesis. This chapter is as challenging as the one you just finished on cellular respiration. However, conceptually it will be a little easier because the concepts learned in Chapter 9—namely, chemiosmosis and an electron transport system—will play a central role in photosynthesis. 1.

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**Photosynthesis AP Bio Chapter 10-2 Chapter 10 meiosis AP bio Chapter 10—Part 2 Photosynthesis Campbell Biology Chapter 10 Chapter 10—Part 1 Ap Biology Chapter 10 Photosynthesis Chapter 10 Photosynthesis Lecture Outline . Overview: The Process That Feeds the Biosphere. Life on Earth is solar powered. The chloroplasts of plants use a process called photosynthesis to capture light energy from the sun and convert it to chemical energy stored in sugars and other organic molecules.**

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Figure 10.1 shows the absorption spectrum for chlorophyll a and the action spectrum for photosynthesis. Why are they different? A) Green and yellow wavelengths inhibit the absorption of red and blue wavelengths. B) Bright sunlight destroys photosynthetic pigments. C) Oxygen given off during photosynthesis interferes with the absorption of light.

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Write out the formula for photosynthesis (net consumption of water formula).  $6\text{CO}_2$  (Carbon Dioxide) +  $6\text{H}_2\text{O}$  (Water) + Light Energy  $\rightarrow$   $\text{C}_6\text{H}_{12}\text{O}_6$  (Glucose) +  $6\text{O}_2$  (Oxygen) 4. Using  $^{18}\text{O}$  as the basis for your discussion, explain how we know that oxygen released in photosynthesis comes from water.

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Chapter 10: Photosynthesis 1. What are autotrophs and

heterotrophs? Autotrophs are “self-feeders”; they sustain themselves without eating anything derived from other living beings. Heterotrophs obtain their organic material by living on compounds produced by other organisms. 3. Write out the formula for photosynthesis. carbon dioxide ( $6\text{CO}_2$ )

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Photosynthesis: Life from Light and Air AP Biology 2007-2008. 3. Energy needs of life All life needs a constant input of energy Heterotrophs (Animals) get their energy from “eating others” consumers eat food = other organisms = organic molecules make energy through respiration Autotrophs (Plants) produce their own energy (from “self”) convert energy of sunlight producers build organic molecules (CHO) from  $\text{CO}_2$  make energy & synthesize sugars through AP Biology photosynthesis.

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~~Chapter 10: Photosynthesis—USP~~

Photosynthesis: The Light-Dependent Reactions • Requires light • Occur in the thylakoid membrane (within the chloroplast) • Water gets split: to oxygen gas (diffuses out of the cell) & hydrogen ions and high-energy electrons, which reduce NADP<sup>+</sup> to NADPH & will be added to CO<sub>2</sub> to build glucose • ATP synthase uses a [H<sup>+</sup>] gradient to convert

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 Paul Andersen explains the process of photosynthesis by which plants and algae can convert carbon dioxide into useable sugar. He begins with a brief descrip...

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