

# Chapter 10 Photosynthesis Study Guide Answer Key

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Gain Lose MOLECULE OXIDIZED Water Glucose MOLECULE REDUCED Carbon Dioxide Oxygen The two stages of photosynthesis are light reactions (light dependent reactions) and the Calvin cycle (light independent reactions). The hydrogen carrier in photosynthesis is NADP+(nicotinamide adenine dinucleotide phosphate).

*Chapter 10: Photosynthesis - Biology E-Portfolio*

Photosynthesis: Light energy + 6CO<sub>2</sub> (carbon dioxide)+ 6H<sub>2</sub>O (water) ? 6C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> (glucose) + 6O<sub>2</sub> (oxygen) -water is oxidized. -CO<sub>2</sub> is reduced. light reaction. the steps of photosynthesis that convert solar energy to chemical energy. light reaction step 1. Light hits pigments in Photosystem 2. light reaction step 2.

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Chapter 10: Photosynthesis-Study Guide Multiple-Choice Questions 1) The process of photosynthesis probably originated \_\_\_\_\_. A) In plants. B) In prokaryotes. C) In fungi. D) Three separate times during evolution. Answer: B 2) Which of the following are products of the light reactions of photosynthesis that are utilized in the Calvin cycle? A) CO<sub>2</sub> and glucose.

## Chapter 10 - Photosynthesis | CourseNotes

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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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Answers Study Guide Chapter 10 Photosynthesis Before Day 1 Textbook: Read pages 176-184 and answer the following questions: Define photoautotrophs. organisms that use light as an energy source to make organic substances.

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Chapter 10 (Photosynthesis) Study Guide. Flashcard maker : Lily Taylor. What are the products of the light reactions of photosynthesis that are used in the Calvin Cycle? ATP and NADPH. Where does the Calvin cycle take place? in the stroma of the chloroplast.

Chapter 10: Photosynthesis - USP

Chapter 10 Photosynthesis Multiple Choice Questions. Chapter 10 Photosynthesis. Multiple-Choice Questions. 1) If photosynthesizing green algae are provided with CO<sub>2</sub> synthesized with heavy oxygen (18O), later analysis will show that all but one of the following compounds produced by the algae contain the 18O label. That one is A) PGA.

Chapter 10 Photosynthesis Study Guide

Study Guide Chapter 10 — Photosynthesis Photosynthesis involves a conversion of energy from one form to another. How is this accomplished? What cellular structures are involved and what ingredients must an organism take from the environment to accomplish photosynthesis?

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Concept 10.1 Photosynthesis converts light energy to the chemical energy of food 2. Take a moment to place the chloroplast in the leaf by working through Figure 10.4. Draw a picture of the chloroplast and label the stroma, thylakoid, thylakoid space, inner membrane, and outer membrane. See page 186 of your text for the labeled figure. 3.

Chapter 10 (Photosynthesis) Questions and Study Guide ...

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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Chapter 10 Study Guide 10.1 In eukaryotes that are autotrophs, photosynthesis occurs in the chloroplasts Chloroplasts split water into hydrogen and oxygen Photosynthesis is a redox process o H<sub>2</sub>O is oxidized o CO<sub>2</sub> is reduced The light reactions in the thylakoid membranes split water producing ATP, Releasing O<sub>2</sub> and forming NADP<sup>+</sup> The Calvin Cycle forms sugar from CO<sub>2</sub> by using ATP as energy and NADPH for reducing power. 10.2 Light is a form of electromagnetic energy In Photosynthesis o A pigment ...

Chapter 10 - Photosynthesis | CourseNotes

Study Guide Chapter 5: Energy and Photosynthesis Driving Question 1: What are the photosynthetic organisms on the planet, and why are they so important? Why should you care? Land plants are the youngest group of photosynthetic autotrophs; they were preceded by algae, which is a general term for photosynthetic organisms that are mostly single-celled and mostly aquatic.

[AP Biology Reading Guide Chapter 10: Photosynthesis Fred ...](#)

Chapter 10 (Photosynthesis) Photosynthesis. STUDY. PLAY. photosynthesis (definition) process of harnessing light energy to build carbohydrates in autotrophs (ex. plants, cyanobacteria) photosynthesis (equation) 6 CO<sub>2</sub> + 6 H<sub>2</sub>O + light energy --> C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> + 6 O<sub>2</sub>. autotroph.