

Name _____ Period _____

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, chemosynthesis and an electron transport system—will play a central role in photosynthesis.

1. As a review, define the terms autotroph and heterotroph. Keep in mind that plants have mitochondria and chloroplasts and do both cellular respiration and photosynthesis!

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 10.3. Draw a picture of the chloroplast and label the stroma, thylakoid, thylakoid space, inner membrane, and outer membrane.
3. Use both chemical symbols and words to write out the formula for photosynthesis (use the one that indicates only the net consumption of water). The formula is the opposite of cellular respiration. You should know both formulas from memory.
4. Using ^{18}O as the basis of your discussion, explain how we know that the oxygen released in photosynthesis comes from water.
5. Photosynthesis is not a single process, but two processes, each with multiple steps.
 - a. Explain what occurs in the light-reaction stage of photosynthesis. Be sure to use NADP^+ and photophosphorylation in your discussion.
 - b. Explain the Calvin cycle, utilizing the term carbon fixation in your discussion.

Ap Bio Chapter 10 Reading Guide Answers

Rosina Ehmann



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Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1) description of the procedural tasks commonly performed for the critically ill patient; 2) explanation of the most common pathophysiologic states encountered; and 3) description of specific disease entities with details of their differential diagnosis, diagnostic strategy, and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader.

Resources in Education, 1996 **The United States Catalog** Mary Burnham, Carol Hurd, 1928 **Library Literature**, 1967 The Linguistic Reporter, 1966 **"The" Illustrated London News**, 1873 Outlook Alfred Emanuel Smith, Francis Walton, 1882 Choice Richard K. Gardner, Phyllis Grumm, 1976

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