

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

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