

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, chemiosmosis 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!  
Autotrophs make their own energy  
Heterotrophs consume other organisms to make their energy.

### *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.  
$$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$
4. Using  $^{18}\text{O}$  as the basis of your discussion, explain how we know that the oxygen released in photosynthesis comes from water.  
We know that the oxygen released in photosynthesis comes from water because when plants were given water labeled with  $^{18}\text{O}$ , the oxygen gas they produced contained  $^{18}\text{O}$ , proving it came from water and not carbon dioxide.
5. Photosynthesis is not a single process, but two processes, each with multiple steps.
  - a. Explain what occurs in the *light reactions* stage of photosynthesis. Be sure to use  $\text{NADP}^+$  and *photophosphorylation* in your discussion.  
In the light reactions, sunlight excites electrons to make ATP through photophosphorylation and converts  $\text{NADP}^+$  into NADPH, while splitting water releases oxygen.
  - b. Explain the *Calvin cycle*, utilizing the term *carbon fixation* in your discussion.  
The Calvin cycle uses carbon fixation to attach  $\text{CO}_2$  to RuBP, and with ATP and NADPH, it produces G3P to form glucose and regenerate RuBP.

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