Chapter 10: Photosynthesis

10.1   Describe the roles of autotrophs and heterotrophs in the biosphere.

10.2   Specify where photosynthesis occurs and describe, in general, how it converts light energy into chemical energy.

10.3   Trace the sequence of events during the light reactions that convert solar energy to chemical energy.

10.4   Explain how the Calvin cycle uses the chemical energy of ATP and NADPH to reduce CO_2 to sugar.

10.5   Identify alternative mechanisms of carbon fixation that have evolved in hot, arid climates.

10.6   Describe photosynthesis and explain why all life on Earth depends on this process.

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. During your study of Chapters 9 and 10, consider how they are related in their transfer of energy and matter.

Study Tip: First, get a big picture view of photosynthesis by working through Figures 10.1 and 10.3. Notice from Figure 10.1 that some plant cells have chloroplasts but almost all plant cells have mitochondria. Use Figure 10.3 to consider the amazing details of photosynthesis inside chloroplasts in the context of the entire plant. Finally, turn back to p. 164, Figure 9.1, to reinforce how the processes of photosynthesis and cellular respiration are related.

Keep in mind that plants have *both* mitochondria and chloroplasts and do both cellular respiration and photosynthesis!

Concept 10.1 Photosynthesis feeds the biosphere

LO 10.1: Describe the roles of autotrophs and heterotrophs in the biosphere.

1.   Define *autotrophs* and *heterotrophs*. Which are the *producers* of the ecosystem? Which are the *consumers*? Give an example of each group.

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RJ Shavelson

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