

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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J Dewey

Ap Biology Chapter 18 Funnelbrain:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Ap Biology Chapter 18 Funnelbrain**

In a world inundated with monitors and the cacophony of immediate interaction, the profound energy and mental resonance of verbal beauty often fade into obscurity, eclipsed by the regular onslaught of noise and distractions. However, situated within the lyrical pages of **Ap Biology Chapter 18 Funnelbrain**, a charming function of literary elegance that impels with natural emotions, lies an remarkable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this magical opus books readers on an emotional odyssey, delicately exposing the latent potential and profound affect embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main subjects, dissect their captivating writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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