

## Chapter 9: Cellular Respiration and Fermentation

- 9.1 Explain how the redox reactions of catabolic pathways yield energy by oxidizing organic fuels.
- 9.2 Trace the pathway of glucose oxidation during glycolysis.
- 9.3 Describe the oxidation of pyruvate and the process by which further oxidation occurs in the citric acid cycle.
- 9.4 Identify the steps of oxidative phosphorylation and account for the total ATP produced per glucose molecule during cellular respiration.
- 9.5 Name two types of fermentation and explain how they result in ATP production.
- 9.6 Use examples to illustrate the interactions of glycolysis and the citric acid cycle with other metabolic pathways.

Although this is a challenging topic, it will give you the background necessary to understand much about energy transfer at the cellular level. Each concept builds on the previous concept, so take your time working through the figures and text, and you will find you have mastered a difficult area of biology when you finish.

**Study Tip:** Before getting involved with the details of cellular respiration, take a second to look at the big picture as shown in Figure 9.1. Both photosynthesis (the topic for Chapter 10) and cellular respiration are key ecological concepts involved with energy flow. Use Figure 9.1 to label the indicated parts in the following figure.



# Chapter 9 Cellular Respiration Review

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## **Chapter 9 Cellular Respiration Review:**

## Unveiling the Magic of Words: A Review of "**Chapter 9 Cellular Respiration Review**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Chapter 9 Cellular Respiration Review**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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