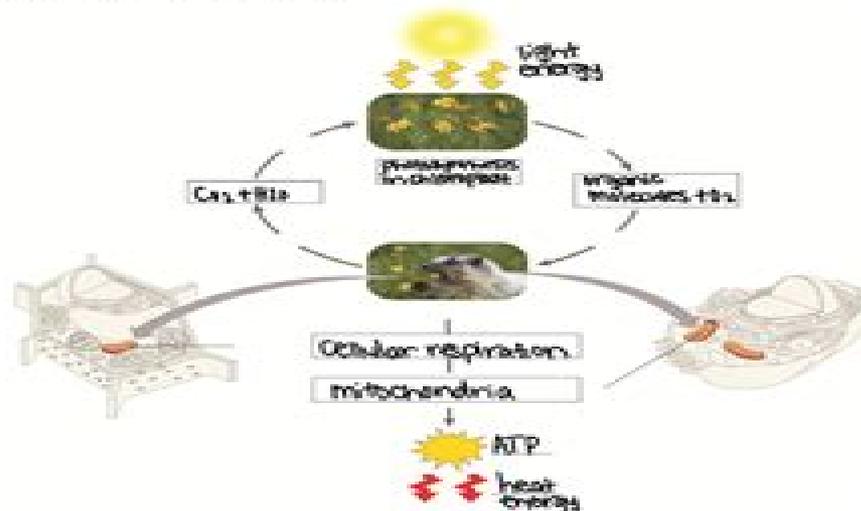


## Chapter 9: Cellular Respiration and Fermentation

- 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 Notes Chezer

**Albert A Gayle**



## **Chapter 9 Cellular Respiration Notes Chezer:**

## Whispering the Secrets of Language: An Emotional Journey through **Chapter 9 Cellular Respiration Notes Chezer**

In a digitally-driven world where monitors reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and psychological nuances hidden within phrases frequently move unheard. Yet, nestled within the pages of **Chapter 9 Cellular Respiration Notes Chezer** a interesting literary treasure sporting with fresh thoughts, lies an extraordinary quest waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within ab muscles material of each and every word. Within the mental depths with this touching review, we shall embark upon a heartfelt exploration of the book is primary styles, dissect their charming publishing type, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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