

## Chapter 9: Cellular Respiration: Harvesting Chemical Energy

Overview: Before getting involved with the details of cellular respiration and photosynthesis, take a second to look at the big picture. Photosynthesis and cellular respiration are key ecological concepts involved with energy flow. Use Figure 9.2 to label the missing parts below.

See page 163 of your text for labeled figure.

*Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels*

1. Explain the difference between *fermentation* and *cellular respiration*.

Fermentation is a partial degradation of sugars or other organic fuel that occurs without the use of oxygen. Cellular respiration consumes oxygen as a reactant along with the organic fuel.

2. Give the formula (with names) for the catabolic degradation of glucose by cellular respiration.

Organic Compounds + Oxygen → Carbon dioxide + Water + Energy

3. Both cellular respiration and photosynthesis are *redox reactions*. In redox, reactions pay attention to the flow of electrons. What is the difference between oxidation and reduction?

In a redox reaction, the loss of electrons from one substance is called *oxidation*, and the addition of electrons to another substance is known as *reduction*.

4. The following is a generalized formula for a redox reaction:



Draw an arrow showing which component (X or Y) is oxidized and which is reduced.

$Xe^-$  is the reducing agent in this reaction, and  $Y$  is the oxidizing agent.

5. When compounds lose electrons, they *lose* energy; when compounds gain electrons, they *gain* energy.
6. In cellular respiration, electrons are not transferred directly from glucose to oxygen. Following the movement of hydrogens allows you to follow the flow of electrons. The hydrogens are held in the cell temporarily by what electron carrier? What *electron carrier* is hydrogen transferred to first?

$NAD^+$

# Cellular Respiration Reading Guide Answers

**Jianjun Gao**



## **Cellular Respiration Reading Guide Answers:**

## **Cellular Respiration Reading Guide Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Cellular Respiration Reading Guide Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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