

Online Library Chapter 9  
Cellular Respiration Harvesting  
Chemical Energy Answer Key

# **Chapter 9 Cellular Respiration Harvesting Chemical Energy Answer Key**

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

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## **Harvesting Chemical ...**

Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy. Lecture  
Outline. Overview: Life Is Work. ...

Cellular respiration is similar in broad principle to the combustion of gasoline in an automobile engine after oxygen is mixed with hydrocarbon fuel. Food is the fuel for respiration.

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## **CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY**

Chapter 9 Cellular Respiration:

Harvesting Chemical Energy. Overview:  
Life Is Work • Living cells require energy  
from outside sources • Energy flows into  
the ecosystem as light and leaves as  
heat • In contrast, the chemical



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elements essential for life are recycled

## **Cellular Respiration: Harvesting Chemical Energy**

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

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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.

## **Chapter 9: Cellular Respiration: Harvesting Chemical Energy** CHAPTER 9 CELLULAR RESPIRATION:

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## HARVESTING CHEMICAL ENERGY

Introduction Living is work. To perform their many tasks, cells require transfusions of energy from outside sources. In most ecosystems, energy enters as sunlight. Light energy trapped in organic molecules is available to both

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## **HARVESTING CHEMICAL ENERGY**

Chapter 9. Cellular Respiration:  
Harvesting Chemical Energy . Lecture  
Outline . Overview: Life Is Work To  
perform their many tasks, living cells  
require energy from outside sources.  
Energy enters most ecosystems as  
sunlight and leaves as heat. In contrast,  
the chemical elements essential for life

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are recycled.

## **CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY**

- In respiration, the electrons of NADH are ultimately passed to  $O_2$ , generating ATP by oxidative phosphorylation.
- In addition, even more ATP is generated from the oxidation of pyruvate in the

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Krebs cycle. • Without oxygen, the energy still stored in pyruvate is unavailable to the cell. • Under aerobic respiration, a molecule of glucose

## **CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY ...**

Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy. Catabolic

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Pathways. Anaerobic pathways.  
Fermentation. Aerobic pathways.  
Cellular respiration. Organic compound  
+ Oxygen ( Carbon dioxide + Water +  
Energy. Redox reaction - reduction-  
oxidation reaction, a reaction with a  
transfer of electrons from one reactant  
to another (Fig 9.3)

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Cellular Respiration Harvesting  
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**Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy**

Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy Multiple-  
Choice Questions 1) What is the term for  
metabolic pathways that release stored  
energy by breaking down complex  
molecules? A) anabolic pathways B)  
catabolic pathways C) fermentation



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pathways D) thermodynamic pathways  
E) bioenergetic pathways Answer: B

## **Chapter 9 Cellular Respiration: Harvesting Chemical Energy ...**

Chapter 9: Cellular Respiration and  
Fermentation 1. Explain the difference  
between fermentation and cellular  
respiration. Fermentation is a partial

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degradation of sugars or other organic fuel that occurs without the use of oxygen, while cellular

## **Chapter 9: Cellular Respiration and Fermentation**

Chapter 9~ Cellular Respiration:  
Harvesting Chemical Energy \* Oxidation refers to the loss of electrons to any

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electron acceptor, not just to oxygen.  
Uses exergonic flow of electrons through ETC to pump  $H^+$  across membrane. \*  
Pumping  $H^+$  across membrane ... what is energy to fuel that? Can't be ATP! that would cost you what you want to make!

## **CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY**

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Respiration: Harvesting Chemical Energy. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

## **Chapter 9 - Cellular Respiration: Harvesting Chemical ...**

Cellular respiration does not happen in a single explosive step to release energy

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Glucose is broken down gradually in a series of enzyme-catalyzed steps. Hydrogen atoms are passed first to the coenzyme NAD<sup>+</sup> (hydrogen ... Chapter 9—Respiration: Harvesting Chemical Energy

## **Chapter 9—Respiration: Harvesting Chemical Energy**

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BIOLOGY I. Chapter 9 – Cellular  
Respiration: Harvesting Chemical Energy  
Review of Carbohydrates Organic  
compounds composed of carbon,  
hydrogen, and oxygen in the  
approximate ratio of 1:2:1,  $(CH_2O)_n$ .  
Perform several major functions in living  
things, including energy storage and  
structural function (building material). \*

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Carbohydrates are the main source of energy (fuel) for

## **Chapter 9: CELLULAR RESPIRATION: Harvesting Chemical Energy**

CHAPTER 9 CELLULAR RESPIRATION:  
HARVESTING ... harvests chemical  
energy by oxidizing glucose to pyruvate:  
a closer look 3. The Krebs cycle



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completes the energy-yielding oxidation of organic molecules: a closer look 4. The inner mitochondrial membrane couples electron transport to ATP synthesis: a closer look 5. Cellular respiration ...

## **CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY ...**

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## **Chapter 9: Cellular Respiration: Harvesting Chemical ...**

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Chapter. 9 cellular respiration -  
harvesting chemi... chapter 8. an  
introduction to metabolism; chapter 7.  
membrane structure and function;  
chapter 6. a tour of the cell; Email from  
Professor. Wight :D; chapter 5. the  
structure and function of large bio...  
chapter 4. carbon and the molecular  
diversity of life September (3)

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## **Chapter. 9 cellular respiration - harvesting chemical energy**

Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy Catabolic  
Pathways Anaerobic pathways  
Fermentation Aerobic pathways Cellular  
respiration Organic compound + Oxygen  
→ Carbon dioxide + Water + Energy

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Redox reaction - reduction-oxidation reaction, a reaction with a transfer of electrons from one reactant to another (Fig 9.3)

## **Chapter 9 Cellular Respiration: Harvesting Chemical Energy**

Chapter 9. Cellular Respiration and Fermentation. Lecture Outline.

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Overview: Life Is Work. To perform their many tasks, living cells require energy from outside sources. Energy enters most ecosystems as sunlight and leaves as heat. In contrast, the chemical elements essential for life are recycled.

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