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## **Chapter 9 Cellular Respiration Chemical**

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Chapter 9. Cellular Respiration. Section 9-1 Chemical Pathways(pages 221-225)  
This section explains what cellular respiration is. It also describes what happens during a process called glycolysis and describes two types of a process called fermentation. Chemical Energy and Food(page 221) 1.

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## **Chapter 9 Cellular Respiration, TE**

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

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structural function (building material). \*  
Carbohydrates are the main source of  
energy (fuel) for

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

comeatus. Chapter 9 - Cellular  
Respiration: Harvesting Chemical  
Energy. STUDY. PLAY. Fermentation. - a

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partial degradation of sugars that occurs without use of oxygen. - a catabolic process: metabolic process that releases stores energy by breaking down complex molecules. Cellular Respiration.

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

Chapter 9 Cellular Respiration:



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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.

## **Chapter 09 - Cellular Respiration: Harvesting Chemical ...**

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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 are recycled.

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

Chapter 9 (Cellular Respiration and  
Fermentation Lecture Notes -  
HIGHLIGHTED Overview: Life Is Work  
Cells harvest the chemical energy stored  
in organic molecules and use it to  
regenerate ATP, the molecule that drives

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most cellular work.

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

Chapter 9: Cellular Respiration:  
Harvesting Chemical Energy. What's the  
difference between cellular.... What is  
the formula for cellular respir.... What is  
the difference between oxidatio.... The

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hydrogens are held in the cell temp....  
Cellular respiration requires oxygen  
while fermentation does n....

## **energy chapter 9 harvesting chemical cellular respiration ...**

Chapter 9: Cellular Respiration:  
Harvesting Chemical Energy . Overview:  
Before getting involved with the details

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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.

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

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**Harvesting Chemical Energy**

Fred and Theresa Holtzclaw. Chapter 9:  
Cellular Respiration and Fermentation. 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, while cellular  
respiration includes both aerobic and

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anaerobic processes, but is often used to refer to the aerobic process, in which oxygen is consumed as a reactant along with the organic fuel.

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

Start studying Science Chapter 9 Cellular Respiration. Learn vocabulary, terms,



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and more with flashcards, games, and other study tools.

## **Science Chapter 9 Cellular Respiration Flashcards | Quizlet**

- Cells harvest the chemical energy stored in organic molecules and use it to regenerate ATP, the molecule that drives most cellular work.
- Respiration has

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three key pathways: glycolysis, the citric acid cycle, and oxidative phosphorylation. Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels

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

### 9.1 Cellular Respiration: An Overview

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Chemical Energy and Food Chemical energy is stored in food molecules. Energy is released when chemical bonds in food molecules are broken. Energy is measured in a unit called a calorie, the amount of energy needed to raise the temperature of 1 gram of water 1 degree Celsius.

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**Workbook Chapter 9.docx - 9.1**

**Cellular Respiration An ...**

During cellular respiration, acetyl CoA accumulates in which location?  
mitochondrial matrix: 852307469: For each molecule of glucose that is metabolized by glycolysis and the citric acid cycle, what is the total number of NADH + FADH<sub>2</sub> molecules produced?

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12: 852307470: Cellular respiration harvests the most chemical energy from which of the ...

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

Chapter 9 Cellular Respiration Chemical  
In cellular respiration, electrons are not transferred directly from glucose to

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oxygen. Each electron is coupled with a proton to form a hydrogen atom. Following the movement of hydrogens allows you to follow the flow of electrons. They hydrogens are held in the cell temporarily by what electron carrier?

## **Chapter 9 Cellular Respiration**

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**Chemical Pathways Answer Key**

Chapter 9: Cellular Respiration and  
Fermentation Cellular Basis of Life Q:  
How do organisms obtain energy?  
respiration? 9 9.1 Cellular Respiration:  
An Overview Chemical Energy and Food  
For Questions 1-4, complete each  
statement by writing the correct word or  
words. 1. A calorie is a unit of ENERGY.

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

Chapter 9 Cellular Respiration Section  
9-1 Chemical Pathways (pages 221-225)

This section explains what cellular respiration is. It also describes what happens during a process called



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glycolysis and describes two types of a process called fermentation. Chemical Energy and Food (page 221) 1. What is a calorie?

## **Chapter 9 Cellular Respiration Section 9 1 Answer Key**

Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy. Overview:

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Life Is Work ... • In contrast, the chemical elements essential for life are recycled - Photosynthesis generates oxygen and organic molecules • Used by mitochondria of eukaryotes as fuel for cellular respiration - Respiration breaks this fuel down, generating ATP

## **Cellular Respiration: Harvesting**

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## **Chemical Energy**

Biology Ch 9 - Assessment - Cellular  
Respiration Sun, 26 Jul 2020 03:08  
Section 9-1 Chemical Pathways(pages  
221-225) This section explains what  
cellular respiration is. It also describes  
what happens during a process called  
glycolysis and describes two types of a  
process called fermentation.

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