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

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## **Chapter 9 Cellular Respiration Harvesting**

Chapter 9: Cellular Respiration:  
Harvesting Chemical Energy . Overview:

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### Chemical Energy

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.

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## Chemical Energy

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

comeatus. Chapter 9 - Cellular Respiration: Harvesting Chemical Energy. STUDY. PLAY. Fermentation. - a partial degradation of sugars that occurs without use of oxygen. - a catabolic process: metabolic process that releases stores energy by breaking down

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complex molecules. Cellular Respiration.

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

BIOLOGY I. Chapter 9 - Cellular  
Respiration: Harvesting Chemical Energy  
Review of Carbohydrates Organic  
compounds composed of carbon,  
hydrogen, and oxygen in the

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approximate ratio of 1:2:1,  $(CH_2O)_n$ .  
Perform several major functions in living things, including energy storage and structural function (building material). \*  
Carbohydrates are the main source of energy (fuel) for

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

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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. •  
Photosynthesis generates oxygen and  
organic molecules that the mitochondria

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

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perform their many tasks, living cells  
require energy from outside sources.

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Energy enters most ecosystems as sunlight and leaves as heat.

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Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy. STUDY.  
Flashcards. Learn. Write. Spell. Test.  
PLAY. Match. Gravity. Created by.

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## Chemical Energy

gabby\_watson1. Bio 2107K Biology.  
Terms in this set (93) 1) What is the  
term for metabolic pathways that  
release stored energy by breaking down  
complex molecules?

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

Chapter 9 Cellular Respiration:

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## Chemical Energy

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**

smoliczh. 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 hydrogens are  
held in the cell temp.... Cellular

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respiration requires oxygen while  
fermentation does n....

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

Chapter 9 Cellular Respiration:  
Harvesting Chemical Energy . Overview:  
Life Is Work • Living cells require energy  
from outside sources • Some animals,

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## Chemical Energy

such as the giant panda, obtain energy by eating plants, and some animals feed on other organisms that eat plants

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

Fred and Theresa Holtzclaw. Chapter 9:  
Cellular Respiration and Fermentation. 1.  
Explain the difference between

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### Chemical Energy

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 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.

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

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**

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

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acid cycle, what is the total number of  
NADH + FADH<sub>2</sub> molecules produced?

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

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

Chapter 9: Cellular Respiration 10. Three

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## Chemical Energy

types of phosphorylation (adding a phosphate) are covered in the text, and two of these occur in cellular respiration. Explain how the electron transport chain is utilized in oxidative phosphorylation.

### **Chapter 9: Cellular Respiration - Biology Junction ...**

CHAPTER 9 CELLULAR RESPIRATION:

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HARVESTING ... harvests chemical energy by oxidizing glucose to pyruvate: a closer look 3. The Krebs cycle 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 generates ...

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## **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 Krebs cycle.
- Without oxygen, the

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energy still stored in pyruvate is unavailable to the cell. • Under aerobic respiration, a molecule of glucose

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

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. Respiration has 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**

During cellular respiration, acetyl CoA

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### Chemical Energy

accumulates in which location?

mitochondrial matrix: 17: 166728664:

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?

12: 18: 166728665: Cellular respiration harvests the most chemical energy from which of ...

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