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Cellular Respiration

**Chapter 9 Cellular
Respiration**

Chemical Pathways

Answer Key

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Chemical Pathways | Answer Key

~~1 Cellular Respiration~~

~~\u0026 Fermentation Lecture~~

~~(Ch. 9) AP Biology with~~

~~Brantley Cellular~~

~~Respiration and Fermentation~~

~~Cellular Respiration and the~~

~~Mighty Mitochondria campbell~~

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Cellular Respiration

~~chapter 9 respiration part 1~~

Cellular Respiration (in

detail) Chapter 9 Part 1 :

~~Cellular Respiration~~

~~Glycolysis Chapter 9:~~

~~Cellular Respiration and~~

~~Fermentation Chapter 9 Part~~

1 - Introduction to Cellular

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Respiration Pathways Answer

AP Bio Ch 09 - Cellular
Respiration and Fermentation
(Part 1)

ATP \u0026amp; Respiration:
Crash Course Biology #7
~~Cellular Respiration~~
Cellular Respiration

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Cellular Respiration: Answer

Oxidative Phosphorylation

(Chapter 9 part 4 of 5) Ch.

9 Cellular Respiration

Review

Chapter 9 Cell Respiration

Intro #2 Respiration (Ch. 9)

Chapter 9 Cell Respiration

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Intro #1 Chapter 9 Cellular

Respiration \u0026amp;

~~Fermentation Chapter 9~~

~~Cellular Respiration~~

~~Chemical~~

Chapter 9. Cellular

Respiration: Harvesting

Chemical Energy. Lecture

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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

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essential for life are recycled.

~~CHAPTER 9 CELLULAR
RESPIRATION: HARVESTING
CHEMICAL ENERGY~~

Chapter 9. Cellular
Respiration. Section 9-1

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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

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Chemical Pathways Answer Key
fermentation. Chemical Energy and Food (page 221) 1.

~~Chapter 9 Cellular
Respiration, TE~~

Chapter 9: Cellular

Respiration: Harvesting

Chemical Energy . Overview:

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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

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with energy flow. Use Figure 9.2 to label the missing parts below.

~~Chapter 9: Cellular
Respiration: Harvesting
Chemical Energy~~
Chapter 9 (Cellular

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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 most

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Cellular work. Concept 9.1

Catabolic pathways yield energy by oxidizing organic fuels

~~CHAPTER 9 CELLULAR~~

~~RESPIRATION: HARVESTING~~

~~CHEMICAL ENERGY~~

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Study Chapter 9 – Cellular Respiration: Harvesting Chemical Energy flashcards from Emma Diaz's BVMS class online, or in Brainscape's iPhone or Android app. Learn faster with spaced repetition.

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Respiration: Harvesting
Chemical ...~~

Cellular Respiration happens with the presence of oxygen because oxygen is the final electron acceptor. What is

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the formula for cellular
respiration? $C_6H_{12}O_6 + 6O_2$
--> $6CO_2 + 6H_2O + \text{Energy}$

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Respiration (Harvesting
Chemical ...~~

Chapter 9 Cellular

Page 21/44

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Respiration: Harvesting
Chemical Energy Lecture
Key

Outline . Overview: Life Is
Work. To perform their many
tasks, living cells require
energy from outside sources.
Energy enters most
ecosystems as sunlight and

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leaves as heat.

Key

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Harvesting Chemical Energy.

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Cellular Respiration - Answer

Section 9-1: Chemical Pathways (pages 221-225).

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~~Chapter 9: Cellular~~

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~~Respiration — Section 9-1:~~

~~Chemical ...~~

Fred and Theresa Holtzclaw.

Chapter 9: Cellular

Respiration and

Fermentation. 1. Explain the

difference between

fermentation and cellular

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Chemical Pathways Answer Key
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

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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~~
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Respiration: Harvesting
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~~Chapter 9 Cellular~~ Answer

~~Respiration: Harvesting
Chemical ...~~

Cellular Respiration •

During cellular respiration,
the fuel (such as glucose)
is oxidized, and O_2 is
reduced: • The electrons

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lose potential energy along the way and energy is released • Organic molecules that have an abundance of hydrogen are excellent fuels - Their bonds are a source of "hilltop" electrons whose

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~~Cellular Respiration: Answer~~

~~Harvesting Chemical Energy~~

Chapter 9 Cellular

Respiration: Harvesting

Chemical Energy The

Principles of Energy Harvest

1. In general terms,

distinguish between

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fermentation and cellular respiration. 2. Write the summary equation for cellular respiration. Write the specific chemical equation for the degradation of glucose. 3. Define oxidation and reduction. 4.

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Chemical Pathways Answer

~~Unit_3_Ch_9_Cellular_Respira
tion_Questions.doc Chapter
9...~~

Chapter 9 Cellular

Respiration: Name_____Per_

Guided Notes 9.1 Cellular

Respiration: An Overview

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Chemical Energy and Food

Where do organisms get energy? Organisms get the energy they need from _____

Chemical Energy and Food •
Food provides living things with the chemical building blocks they need to _____

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and _____ • Food molecules contain chemical energy that is released when its ...

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~~Chapter 9 Cellular~~

~~Respiration ...~~

• In cellular respiration,

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Chemical Pathways Answer Key

glucose and other organic molecules are broken down in a series of steps •Electrons from organic compounds are usually first transferred to NAD^+ , a coenzyme •As an electron acceptor, NAD^+ functions as an

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Chemical Pathways Answer Key

oxidizing agent during cellular respiration • Each NADH (the reduced form of NAD⁺) represents stored energy that is tapped to synthesize ATP

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~~Harvesting Chemical Energy~~

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CHAPTER 9 CELLULAR

RESPIRATION: HARVESTING

CHEMICAL ENERGY Catabolic

pathways yield energy by

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Chapter 9 Harvesting
Chemical Energy 1 2 2
Mitochondrion Cellular

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respiration Collection of metabolic reactions that breaks down food molecules to produce energy in the form of ATP Mitochondrion (color-enhanced TEM).

~~Ch 7 Harvesting Energy~~

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~~Harvesting...~~

11.5.1 Anaerobic Cellular Respiration. In some organisms, molecules other than oxygen are used as the final electron acceptor. If an inorganic molecule is

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used as the final electron acceptor, the process is called anaerobic cellular respiration. Certain prokaryotes use anaerobic respiration to produce ATP.

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