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

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**Chapter 9 Cellular Respiration Harvesting**

AP Biology: Chapter 9: Cellular Respiration: Harvesting Chemical Energy. Pyruvate moves into the mitochondrial matrix through a transport protein. In the matrix, an enzyme complex removes a $CO_2$, strips away electrons to convert $NAD^+$ to NADH, and adds a coenzyme A to form acetyl CoA. Two acetyl CoA molecules are produced per glucose. Acetyl CoA now enters the citric acid cycle.

**AP Biology: Chapter 9: Cellular Respiration: Harvesting ...**

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

• Cells harvest the chemical energy stored in organic molecules and use it to regenerate ATP, the molecule that drives most cellular work. • Respiration has three key pathways: glycolysis, the citric acid cycle, and oxidative phosphorylation. • The arrangement of atoms of organic molecules represents potential energy.

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

Chapter 9 - Cellular Respiration: Harvesting Chemical Energy. Products of the cycle per turn: - 3 CO2 molecules - 1 ATP (by substrate-level phosphorylation) - NADH and FADH2 More details: - 2 carbons enter in the acetyl group - 2 carbons leave in oxidized form of CO2 - the acetyl group of the acetyl CoA joins the cycle by combining with oxaloacetate forming citrate.

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

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

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 most cellular work.

**CHAPTER 9 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 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: Harvesting Chemical Energy!! Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels!! 1. Explain the difference between fermentation and cellular respiration. ! 2. Give the formula (with names) for the catabolic degradation of glucose by cellular respiration. ! 3.

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

Chapter 9 – Cellular Respiration: Harvesting Chemical Energy – Homework. Watch the following videos and take notes in your BILL: Mr. Andersen's Cellular Respiration. Mr. Andersen's Anaerobic Respiration. View the following PREZI – take notes if you choose: Cellular Respiration Prezi – use Firefox to view – will not open on Chrome

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

CHAPTER 9 . CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY . Learning objectives: The Principles of Energy Harvest. 1. In general terms, distinguish between fermentation and cellular respiration. 2. Write the summary equation for cellular respiration. Write th e specific chemical equation for the degradation of glucose. 3. Define oxidation and reduction.

**CHAPTER 9 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 the big picture. Photosynthesis and cellular respiration are key ecological concepts involved with energy flow.

**Chapter 9: Cellular Respiration - Biology Junction ...**
BIOLOGY I. Chapter 9 – Cellular Respiration: Harvesting Chemical Energy. Stages of Cellular Respiration: (2) Citric Acid Cycle (Krebs Cycle) Because the citric acid cycle turns twice for each original. glucose molecule, the inputs and outputs of the citric acid cycle. per glucose molecule are as follows:

**Chapter 9: CELLULAR RESPIRATION: 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 are recyled.

**CHAPTER 9 CELLULAR RESPIRATION: HARVESTING CHEMICAL ENERGY**
Chapter 9: Cellular Respiration: Revised Review . 1) What is the term used for the metabolic pathway in which glucose (C 6 H 12 O 6) is degraded to carbon dioxide (CO 2) and water? 2) Which of the following statements is (are) correct about an oxidation-reduction (or redox) reaction? 3) Which of the following statements describes the results of this reaction?

**Chapter 9: Cellular Respiration: Harvesting Chemical Energy**
Chapter 9: Cellular Respiration: Harvesting Chemical Energy Overview: Life is Work 1. 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.

**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?

**Chapter 9 Cellular Respiration: Harvesting Chemical Energy ...**
Concept 9.2 Glycolysis harvests chemical energy by oxidizing glucose to pyruvate. During glycolysis, glucose, a six carbon-sugar, is split into two three-carbon sugars. These smaller sugars are oxidized and rearranged to form two molecules of pyruvate, the ionized form of pyruvic acid.

**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 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 - 1 - Name Period 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.

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

# Chapter 9 Cellular Respiration Harvesting Chemical Energy Answer Key



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