

## *Cellular Respiration Harvesting Chemical Energy Answer Key*

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### Cellular Respiration Harvesting Chemical Energy

Cellular Respiration: a process able to extract a large amount of energy from food molecules.

### Harvesting Chemical Energy - Cellular Respiration

Cellular Respiration: Harvesting Chemical Energy Chapter 9 • Objectives • Define oxidation and reduction, and, in general terms, explain how redox reactions are involved in energy exchanges. • Name the three stages of cellular respiration and state the region of the eukaryotic cell where each stage occurs.

### Cellular Respiration: Harvesting Chemical Energy

Cellular Respiration: Harvesting Chemical Energy. Overview: Life Is Work ... ATP powers most cellular work Heat energy ATP. Fig. 9-1 Some animals, such as the giant panda, obtain energy by eating plants, and ... energy (b) Cellular respiration Controlled. release of. energy for.

### Cellular Respiration: Harvesting Chemical Energy

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.

### Chapter 09 - Cellular Respiration: Harvesting Chemical Energy

• Catabolic pathways like cellular respiration yield energy through the transfer of electrons during chemical reactions – Relocation of electrons releases energy stored in organic molecules • This energy is ultimately used to make ATP – Chemical reactions that transfer electrons from one reactant to another are called

### Cellular Respiration: Harvesting Chemical Energy

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

Stepwise Energy Harvest via Electron Transport Chain 1. Controlled rxns (a) Uncontrolled reaction  $H_2 + 1/2 O_2$  Explosive ATP release of heat and light energy (b) Cellular respiration Controlled release of energy for synthesis of  $2 H^+ + 2 e^-$   $2 H^+ + 1/2 O_2$  (from food via  $O_2$  NADH)  $1/2 O_2$

### Cellular Respiration: Harvesting Chemical Energy - MCCC

• Cellular respiration includes both aerobic and anaerobic respiration but is often used to refer to aerobic respiration • Although carbohydrates, fats, and proteins are all consumed as fuel, it is helpful to trace cellular respiration with the sugar glucose:  $C_6H_{12}O_6 + 6 O_2 \rightarrow 6 CO_2 + 6 H_2O$  + Energy (ATP + heat)

### Cellular Respiration: Harvesting Chemical Energy

Anaerobic respiration a catabolic pathway in which oxygen is not consumed as a reactant along with the organic fuel A complex of several membrane proteins that provide a port through which protons diffuse.

### 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

• 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

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

Usually an organism brings in oxygen from the environment and releases waste CO<sub>2</sub>. – Cellular respiration is the aerobic (oxygen requiring) harvesting of energy from food molecules by cells.

### **Chapter 6 Introduction How Cells Harvest Chemical Energy**

use as fuel for cellular respiration. • 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.

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

Cellular Respiration: Harvesting Chemical Energy Energy Flows through the Ecosystem CO<sub>2</sub> Glucose H<sub>2</sub>O O<sub>2</sub> ATP ECOSYSTEM Sunlight energy Photosynthesis in chloroplasts Cellular respiration in mitochondria (for cellular work) Heat energy + !+ Energy enters the ecosystem in form of solar energy Photosynthesis converts solar energy to chemical energy. Glucose and O

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