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What Is Cellular  
Respiration - How Do  
Cells Obtain Energy -  
Energy Production In  
The Body

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How Mitochondria  
Produce Energy

~~AEROBIC vs~~

~~ANAEROBIC~~

~~DIFFERENCE~~ Steps of  
Glycolysis Reactions

Explained - Animation -  
SUPER EASY

Glycolysis! (Mr. W's  
Music Video) Cellular  
Respiration: Glycolysis,  
Krebs Cycle, Electron  
Transport Chain Cellular

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Electron Transport  
Chain (Oxidative  
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~~Prep Steps~~  
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~~Capture Light Energy~~

~~and Convert It into~~

~~Chemical Energy~~

~~Glycolysis Overview~~

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Cellular Respiration:  
Harvesting Chemical  
Energy . 2 Living cells  
require energy from  
outside sources . 3 ...  
cellular respiration Cells  
use chemical energy  
stored in organic  
molecules to regenerate  
ATP, ... energy (b)  
Cellular respiration  
Controlled release of  
energy for synthesis of  
ATP  $2 \text{ H}^+ - + 2 \text{ e} 2 \text{ H} 1$

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Harvesting  
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Chemical  
Harvesting Chemical  
Energy Answer  
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Woelker 2009 Harvesting  
Chemical Energy:  
Cellular Respiration 71 2.  
Reactions 1 – 5 generate  
G3P, using ATP. 3.  
Reactions 6 – 10 convert  
G3P to pyruvate,  
producing ATP and  
NADH. 4. The net

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Key

reaction is: glucose + 2  
ADP + 2 P<sub>i</sub> + 2 NAD +  
2 pyruvate + 2  
NADH + 2 H<sup>+</sup> + 2 ATP

a. All six carbons from  
glucose are retained in  
the two pyruvate  
molecules. b.

~~HARVESTING  
CHEMICAL ENERGY:  
CELLULAR  
RESPIRATION~~

As covalent bonds are

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rearranged energy is released. This energy is harvested by different means in different cells.

The goal is to replenish the ever dwindling supply of ATP which is necessary to perform "work" in the cells. Most cells have a biochemical pathway referred to as cellular respiration.

~~Harvesting Chemical~~

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~~Energy—Cellular  
Respiration~~

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

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

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

Cellular Respiration •

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

The electrons lose potential energy along

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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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Harvesting Chemical  
Energy

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## Cellular Respiration: Harvesting Chemical Energy

Energy flows into an ecosystem as sunlight and leaves as heat •

Photosynthesis generates

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O<sub>2</sub> and organic molecules, which are used in cellular respiration • Cells use chemical energy stored in organic molecules to regenerate ATP, which powers work Copyright © 2008 Pearson Education, Inc., publishing as Pearson Benjamin Cummings

Cellular Respiration:

*Page 18/32*

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~~Respiration Harvesting Chemical Energy~~

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

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elements essential for life  
are recycled.

Cellular Respiration:

Harvesting Chemical  
Energy

Cellular Respiration:

Harvesting Chemical

Energy . Overview: Life Is

Work • Living cells

require energy from

outside sources ...

chemical energy in food

that is available following

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digestion and  
metabolism. The most  
common value for  
expressing the amount of  
Energy Answer  
~~Cellular Respiration:  
Harvesting Chemical  
Energy~~

Cellular respiration  
harvests the most  
chemical energy from  
which of the following?

1. substrate-level  
phosphorylation

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2. chemiosmotic phosphorylation  
3. converting oxygen to atp  
4. transferring electrons from organic molecules to pyruvate  
5. generating carbon dioxide and oxygen in the electron transport chain  
Please explain each answer choice

~~Where does cellular respiration harvest the~~

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~~most 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~~

*Page 23/32*

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~~Respiration: Harvesting  
Chemical Energy~~

The primary role of oxygen in cellular respiration is to A) yield energy in the form of ATP as it is passed down the respiratory chain. B) act as an acceptor for electrons and hydrogen, forming water. C) combine with carbon, forming CO<sub>2</sub>. D) combine with lactate,



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forming pyruvate. E)  
catalyze the reactions of  
glycolysis.

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HARVESTING

CHEMICAL ENERGY

Catabolic pathways yield energy by oxidizing

organic

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~~CHAPTER 9~~

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Cells harvest the chemical energy stored in organic molecules and use it to regenerate ATP,

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the molecule that drives most cellular work.

Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels. Organic compounds possess potential energy as a result of the arrangement of electrons in the bonds between their atoms.

~~CHAPTER 9~~  
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*Page 28/32*

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~~RESPIRATION:  
HARVESTING  
CHEMICAL ENERGY~~

Cellular Respiration:

Harvesting Chemical  
Energy . Overview: Life Is

Work • Living cells  
require energy from  
outside sources • Some  
animals, such as the giant  
panda, obtain ... energy

(b) Cellular respiration  
Controlled release of  
energy for synthesis of

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Energy

Energy Answer  
Key  
In cellular respiration,  
electrons are not  
transferred directly from  
glucose to oxygen. Each  
electron is coupled with a  
proton to form a  
hydrogen atom.

Following the movement  
of hydrogens allows you

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to follow the flow of electrons. NAD<sup>+</sup>, a coenzyme, is the electron carrier that temporarily holds the hydrogens in the cell.

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

- Cellular respiration is needed in cells to obtain energy. Occurs in steps  
Some free energy

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conserved as ATP • The  
resulting ATP is later  
used in other metabolic  
functions. Major Steps of  
Glucose Metabolism

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