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Introduction, Living is

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work. To perform their many tasks, cells require transfusions of energy from outside sources. In most ecosystems, energy enters as sunlight. Light energy trapped in organic molecules is available to both photosynthetic organisms and others that eat them. A.

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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.

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Chapter 9 Cellular

Respiration

Respiration:

Harvesting Chemical

Energy

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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

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organic molecules that
the mitochondria of
eukaryotes

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Chapter 9- Cellular
Respiration: Harvesting
Chemical Energy. A
complex of several
membrane proteins
that provide a port
through which protons
diffuse. This complex

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functions in chemiosmosis with adjacent electron transport chains, using the energy of a hydrogen ion concentration gradient to make ATP; found in the inner mitochondrial membrane of eukaryotic cells and the plasma membrane of prokaryotic cells.

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Chapter 9 Cellular Respiration: Harvesting Chemical Energy. In the presence of oxygen, an increase in the amount ATP in a cell would be expected to A) inhibit the enzyme and thus slow the rates of glycolysis and the citric acid cycle. B) activate the enzyme and thus slow the rates of glycolysis and the citric acid cycle.

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**Respiration:
Harvesting Chemical**

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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

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essential for life are recycled.

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RESPIRATION:
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Cellular respiration
equation Cellular
Respiration The first
step of cellular
respiration... $C_6H_{12}O_6 + 6O_2 \Rightarrow 6CO_2 + 6H_2O + ATP$
The process of
breaking down glucose
to release energy and

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for... The process that releases energy (ATP) by breaking down glucos... Converting glucose into ATP in the presence of oxygen.

**study notes chapter
9 cellular respiration
harvesting 1 ...**

Chapter 9: Cellular
Respiration and
Fermentation 1.

Explain the difference
between fermentation
and cellular respiration.

Fermentation is a

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partial degradation of sugars or other organic fuel that occurs without the use of oxygen, while cellular

Chapter 9: Cellular Respiration and Fermentation

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

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twice for each original.
glucose molecule, the
inputs and outputs of
the citric acid cycle.
per glucose molecule
are as follows:

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Overview: Before
getting involved with

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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 - Biology Junction ...

Cells harvest the

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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.

Concept 9.1 Catabolic pathways yield energy by oxidizing organic fuels.

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Chapter 09 - Cellular
Respiration: Harvesting
Chemical Energy.

Glycolysis can occur
whether O_2 is present
or not. Concept 9.3 The
citric acid cycle
completes the energy-
yielding oxidation of
organic molecules
More than three-
quarters of the original

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Respiration

energy in glucose is still present in the two molecules of pyruvate.

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...

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

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complex molecules?

Harvesting
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Energy ...**

Cellular respiration
generates many ATP
molecules for each
sugar molecule it
oxidizes: a review

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- Respiration occurs in
three metabolic stages:

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glycolysis, the Krebs cycle, and the electron ... across a membrane to drive cellular work.

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Chapter 9 (Cellular Respiration and Fermentation Lecture Notes - HIGHLIGHTED Overview: Life Is Work Cells harvest the

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chemical energy stored
in organic molecules
and use it to
regenerate ATP, the
molecule that drives
most cellular work.

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