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Respiration

Harvesting

Chemical Energy

Answer Key

Cellular Respiration Harvesting Chemical Energy Answer Key

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**Cellular Respiration
Harvesting Chemical
Energy**

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Answer Key

Cellular respiration in mitochondria Organic molecules + O_2 ATP powers most cellular work Heat energy ATP Energy flows into an sunlight and leaves as heat Photosynthesis generates O_2 and organic molecules, which are used in cellular respiration Cells use chemical energy stored in organic molecules to regenerate ATP, which powers work

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**Cellular Respiration:
Harvesting Chemical
Energy**

Concept 9.2: Glycolysis harvests chemical energy by oxidizing glucose to pyruvate

- Glycolysis (“splitting of sugar”) breaks down glucose into two molecules of pyruvate

Glycolysis occurs in the cytoplasm and has two major phases: -Energy investment phase

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Cellular Respiration: Harvesting Chemical Energy

BIOLOGY I. Chapter 9 -

Cellular Respiration:
Harvesting Chemical
Energy Review of
Carbohydrates Organic
compounds composed
of carbon, hydrogen,
and oxygen in the
approximate ratio of
1:2:1, $(CH_2O)_n$.
Perform several major
functions in living
things, including
energy storage and

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structural function
(building material). *

Carbohydrates are the
main source of energy
(fuel) for

Chapter 9:
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RESPIRATION:
Harvesting Chemical
Energy

is the primary energy
molecule of organisms

- The hydrolysis of ATP provides the chemical energy that powers most cell work.
- On

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the flip side, making
ATP takes energy; this

comes from the
oxidation of sugars and
other reduced

compounds. • This

energy is used to

phosphorylate adenine

diphosphate (ADP) to

make ATP + H₂O

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Respiration Harvesting

Chemical Energy. ATP.

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Metabolism.

Metabolism: all of the chemical reactions that take place within an organism. Metabolic pathways alter molecules in a series of steps. Enzymes selectively accelerate each step. enzymes are regulated to maintain a balance of supply and demand.

**Cellular Respiration
Harvesting Chemical
Energy**

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Respiration

• Energy flows into the ecosystem as sunlight

• This energy then leaves in the form of heat - Chemical elements essential to life are recycled, however: •

Photosynthesis

generates oxygen and organic molecules (glucose) • Cell

respiration breaks these organic Light molecules down, generating ATP that

drives cellular work •

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Respiration

Waste products of
respiration (CO

Chemical Energy

Cellular Respiration: Harvesting Chemical Energy

Cellular Respiration: -
aerobic - oxidizing
NADH to NAD⁺: the
final electron receptor
is oxygen - harvests
much more energy
from each sugar
molecule (19 times
more ATP per glucose
molecule -- 36-38:2)

Both: - produce ATP by

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Respiration

Harvesting the

chemical energy of

food

**Cellular Respiration:
Harvesting Chemical
Energy - Quizlet**

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

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Answer Key

water. C) combine with carbon, forming CO₂. D) combine with lactate, forming pyruvate. E) catalyze the reactions of glycolysis.

Cellular Respiration: Harvesting Chemical Energy - Quizlet

Protein, Carbohydrates, Fats. Explain the difference in energy usage between the catabolic reactions of cellular respiration and

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Respiration

anabolic pathways of

biosynthesis. cellular

respiration energy is
converted to
synthesize ATP.

biosynthesis energy

from ATP is used to

synthesize more

complex molecules.

Chapter 9: Cellular

Respiration

(Harvesting

Chemical Energy)

Start studying cellular

respiration:Harvesting

chemical energy. Learn

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Answer Key

vocabulary, terms, and more with flashcards, games, and other study tools.

**cellular respiration:
Harvesting chemical
energy Flashcards ...**

Cellular Respiration

The aerobic harvesting of energy from food molecules; the energy-releasing chemical breakdown of food molecules, such as glucose, and the storage of potential

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Respiration

Harvesting

energy in a form that
cells can use to
perform work; involves
glycolysis, the citric

acid cycle, and

oxidative

phosphorylation

**Cellular Respiration:
Aerobic Harvesting
of Energy ...**

75 terms.

pollyypedrazaa.

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Respiration Harvesting
Chemical Energy.

STUDY. PLAY. ATP. the

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Respiration

molecule that drives most cellular work.

Chemical elements essential to life are recycled.

Photosynthesis:

generates oxygen and organic molecules used by the mitochondria.

Cellular Respiration Harvesting Chemical Energy - Quizlet

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

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Respiration

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

The biochemical pathway that harvests the energy from the

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Respiration

eaten food is called
cellular respiration.

Harvesting
Chemical Energy

Cellular Respiration: Harvesting Chemical Energy ...

As covalent bonds are 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

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have a biochemical pathway referred to as cellular respiration.

Harvesting Chemical Energy - Cellular Respiration

Cellular respiration in mitochondria Organic molecules + O₂ ATP powers most cellular work Heat energy ATP Energy flows into an ecosystem as sunlight and leaves as heat Photosynthesis generates O₂ and

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organic molecules,
which are used in
cellular respiration

Cells use chemical
energy stored in
organic molecules to
regenerate ATP, which
powers work

Cellular Respiration: Harvesting Chemical Energy

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

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Respiration

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

CHAPTER 9
CELLULAR
RESPIRATION:
HARVESTING

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CHEMICAL ENERGY

The harvesting of energy from glucose by cellular respiration is a cumulative function of three metabolic stages. Cellular respiration has three stages:

Glycolysis (breaks down glucose into two molecules of pyruvate)

The citric acid cycle (completes the breakdown of glucose)

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