

## CELLULAR RESPIRATION QUESTIONS

1. Write the balanced word and chemical equation for aerobic respiration.

→ Glucose + oxygen → carbon dioxide + water + energy



2. What is the purpose of cellular respiration?

→ Cellular respiration is the process that occurs in the mitochondria of organisms (animals and plants) to break down sugar in the presence of oxygen to release energy in the form of ATP.

3. Why is NADH called an electron shuttle bus?

→ It is called an electron shuttle bus because it picks up electrons/ becomes reduced when another molecule is oxidized and then transfers the electrons to another molecule.

4. What are the two mechanisms in which ATP is generated? Briefly describe each mechanism.

→ Glycolysis: The enzymes breakdown 1 molecule of glycolysis into 2 molecules of pyruvate. Some high – energy ATP and NADH is synthesized.

Citric acid cycle: Acetyl – CoA molecules from pyruvate oxidation enter a metabolic cycle, where the acetyl group is completely oxidized to CO<sub>2</sub>. In the process, ATP and the electron carriers NADH and FADH<sub>2</sub> are synthesized.

5. Make a comparison chart to show how much ATP is produced from substrate level phosphorylation versus oxidative phosphorylation (use the equivalent amount of ATP for coenzymes).

→ Substrate level phosphorylation: 2 from glycolysis, 2 from Krebs

Oxidative phosphorylation: chemiosmosis and 32 from Electron transport chain

6. Define the following terms:

a. Aerobic cellular respiration

c. Substrate level phosphorylation

e. Chemiosmosis

→

b. Anaerobic cellular respiration

d. Oxidative phosphorylation

f. Carboxylation

A. Aerobic Cellular Respiration is a process that uses oxygen to harvest energy from organic compounds

B. Anaerobic cellular respiration is a process that uses a final inorganic oxidizing agent other than oxygen to produce energy

C. Substrate level phosphorylation: The formation of ATP from the direct transfer of a phosphate group a substrate to ADP

D. Oxidative phosphorylation: A process that forms ATP using energy transferred indirectly from a series of redox reactions.

# Chapter Cellular Respiration Wordwise Answer Key

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**Chapter Cellular Respiration Wordwise Answer Key:**

**Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

## Decoding **Chapter Cellular Respiration Wordwise Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter Cellular Respiration Wordwise Answer Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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