

## CELLULAR RESPIRATION QUESTIONS

1. Write the balanced word and chemical equation for aerobic respiration.  
→ Glucose + oxygen → carbon dioxide + water + energy  
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{36-38 ATP}$$
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  $CO_2$ . In the process, ATP and the electron carriers NADH and  $FADH_2$  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	b. Anaerobic cellular respiration
c. Substrate level phosphorylation	d. Oxidative phosphorylation
e. Chemiosmosis	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.

# 44 Overview Of Cellular Respiration Study Guide Answer Key 238293

**G Orfield**

**44 Overview Of Cellular Respiration Study Guide Answer Key 238293:**

44 Overview Of Cellular Respiration Study Guide Answer Key 238293: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. 44 Overview Of Cellular Respiration Study Guide Answer Key 238293 : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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