

CELLULAR RESPIRATION QUESTIONS

1. Write the balanced word and chemical equation for aerobic respiration.
→ Glucose + oxygen → carbon dioxide + water + energy
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + 36 - 38 \text{ ATP}$$
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.

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What happens to a meal after it is eaten Food consists primarily of lipids proteins and carbohydrates sugars How do cells in the body process food once it is eaten and turned it into a form of energy that other cells can use This book examines some of the classic experimental data that revealed how cells break down food to extract the energy Metabolism of food is regulated so that energy extraction increases when needed and slows down when not needed This type of self regulation is all part of the complex web of enzymes that convert food into energy Adding to this complexity is that all food eventually winds up as two carbon bits that are all processed the same way This book will also reveal why animals breathe oxygen and how that relates to the end of the energy extraction process and oxygen s only role in the body Rather than look at all the details this book takes a wider view and shows how cellular respiration is self regulating *Holt Biology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-01-01 **Holt Biology Chapter 10 Resource File: Cell Growth and Division** Holt Rinehart & Winston,2008-01-01 *Holt Biology Chapter 7 Resource File: Cell Structure* Holt Rinehart & Winston,2008-01-01 **Chapter Resource 2 Chemistry of Life Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 *Holt Biology Chapter 8 Resource File: Cells and Their Environment* Holt Rinehart & Winston,2008-01-01 **Holt Biology Chapter Resource File 19** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Holt Biology Chapter 21 Resource File: Protists** Holt Rinehart & Winston,2008-01-01 *Cellular Respiration 164 Success Secrets - 164 Most Asked Questions on Cellular Respiration - What You Need to Know* Fred Alvarez,2014-10-17 A breath of fresh Cellular respiration air There has never been a Cellular respiration Guide like this It contains 164 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Cellular respiration A quick look inside of some of the subjects covered Zyklon B Mechanism Leghemoglobin Microbial metabolism Anaerobic respiration Metabolic Biology Energy Chemiosmosis The Chemiosmotic Theory Ischemia Signs and symptoms Breathing Cell

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Table of Contents Cellular Respiration Worksheet Answers Holt Biology

1. Understanding the eBook Cellular Respiration Worksheet Answers Holt Biology
 - The Rise of Digital Reading Cellular Respiration Worksheet Answers Holt Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Cellular Respiration Worksheet Answers Holt Biology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cellular Respiration Worksheet Answers Holt Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cellular Respiration Worksheet Answers Holt Biology
 - Personalized Recommendations
 - Cellular Respiration Worksheet Answers Holt Biology User Reviews and Ratings
 - Cellular Respiration Worksheet Answers Holt Biology and Bestseller Lists

5. Accessing Cellular Respiration Worksheet Answers Holt Biology Free and Paid eBooks
 - Cellular Respiration Worksheet Answers Holt Biology Public Domain eBooks
 - Cellular Respiration Worksheet Answers Holt Biology eBook Subscription Services
 - Cellular Respiration Worksheet Answers Holt Biology Budget-Friendly Options
6. Navigating Cellular Respiration Worksheet Answers Holt Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Cellular Respiration Worksheet Answers Holt Biology Compatibility with Devices
 - Cellular Respiration Worksheet Answers Holt Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cellular Respiration Worksheet Answers Holt Biology
 - Highlighting and Note-Taking Cellular Respiration Worksheet Answers Holt Biology
 - Interactive Elements Cellular Respiration Worksheet Answers Holt Biology
8. Staying Engaged with Cellular Respiration Worksheet Answers Holt Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cellular Respiration Worksheet Answers Holt Biology
9. Balancing eBooks and Physical Books Cellular Respiration Worksheet Answers Holt Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cellular Respiration Worksheet Answers Holt Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cellular Respiration Worksheet Answers Holt Biology
 - Setting Reading Goals Cellular Respiration Worksheet Answers Holt Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cellular Respiration Worksheet Answers Holt Biology
 - Fact-Checking eBook Content of Cellular Respiration Worksheet Answers Holt Biology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web mar 2 2012 1 the pest analysis is an instrument used to identify relevant external developments pest stands for political economic social and technological developments 2 the efqm model is used as a tool for internal analysis the model focuses on different arrears of the organization namely leadership processes and performance