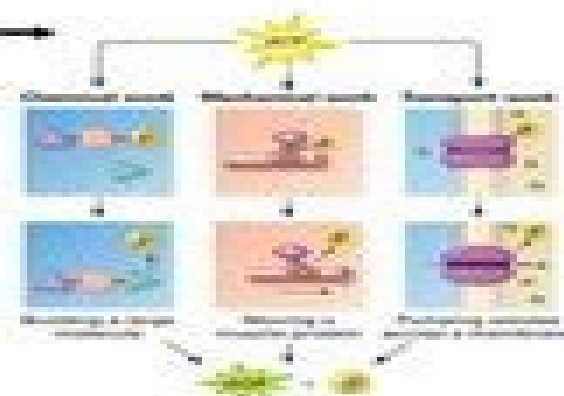


your cells use ATP energy to perform 3 main types of work:

Living cells use up ATP at a very fast rate - a human cell needs about 2 million a second. In order to maintain constant levels, a supply of ATP must be replaced as it is used. So, it is constantly being recycled in your cells.

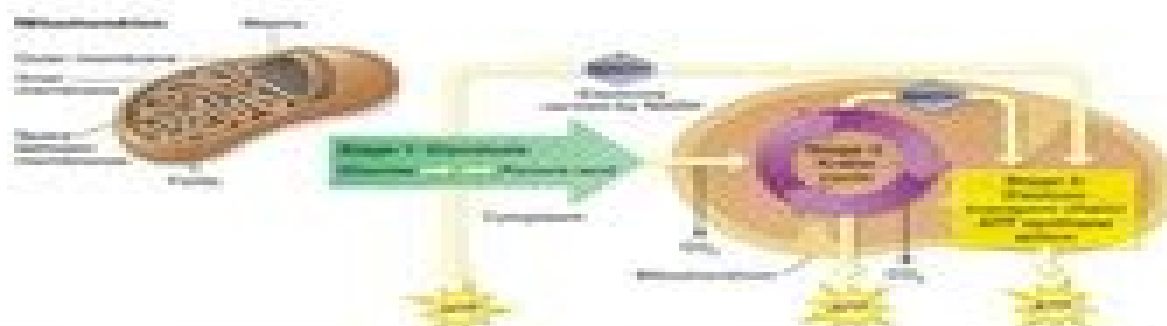


How do we recycle ATP? your cells need oxygen and glucose! Oxygen enters by breaking down glucose the by-product of cellular respiration (CO₂) by breathing out!



In cellular respiration, the atoms in glucose and oxygen are rearranged, forming a carbon dioxide molecule. The cell uses the energy released to produce ATP. This process takes several steps.

Cellular respiration has three main stages (some minor stages). Two of the three take place in the mitochondria. This is a "road map" of all three stages.



Where cellular respiration happens	What cellular respiration does	What cellular respiration produces	What cellular respiration uses	What cellular respiration releases
cytoplasm	breaks down glucose into pyruvate	2 ATP	glucose	2 CO ₂
mitochondria	breaks down pyruvate into acetyl-CoA	2 ATP	2 pyruvate	2 CO ₂
mitochondria	uses electrons from acetyl-CoA to produce ATP	34 ATP	2 acetyl-CoA	H ₂ O

Biology Cellular Respiration And Photosynthesis Study Guide

Zhe Xu



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Table of Contents Biology Cellular Respiration And Photosynthesis Study Guide

1. Understanding the eBook Biology Cellular Respiration And Photosynthesis Study Guide
 - The Rise of Digital Reading Biology Cellular Respiration And Photosynthesis Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Cellular Respiration And Photosynthesis Study Guide
 - 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 Biology Cellular Respiration And Photosynthesis Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Cellular Respiration And Photosynthesis Study Guide
 - Personalized Recommendations
 - Biology Cellular Respiration And Photosynthesis Study Guide User Reviews and Ratings
 - Biology Cellular Respiration And Photosynthesis Study Guide and Bestseller Lists
5. Accessing Biology Cellular Respiration And Photosynthesis Study Guide Free and Paid eBooks
 - Biology Cellular Respiration And Photosynthesis Study Guide Public Domain eBooks
 - Biology Cellular Respiration And Photosynthesis Study Guide eBook Subscription Services
 - Biology Cellular Respiration And Photosynthesis Study Guide Budget-Friendly Options

6. Navigating Biology Cellular Respiration And Photosynthesis Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Cellular Respiration And Photosynthesis Study Guide Compatibility with Devices
 - Biology Cellular Respiration And Photosynthesis Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Cellular Respiration And Photosynthesis Study Guide
 - Highlighting and Note-Taking Biology Cellular Respiration And Photosynthesis Study Guide
 - Interactive Elements Biology Cellular Respiration And Photosynthesis Study Guide
8. Staying Engaged with Biology Cellular Respiration And Photosynthesis Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Cellular Respiration And Photosynthesis Study Guide
9. Balancing eBooks and Physical Books Biology Cellular Respiration And Photosynthesis Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Cellular Respiration And Photosynthesis Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Cellular Respiration And Photosynthesis Study Guide
 - Setting Reading Goals Biology Cellular Respiration And Photosynthesis Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Cellular Respiration And Photosynthesis Study Guide
 - Fact-Checking eBook Content of Biology Cellular Respiration And Photosynthesis Study Guide
 - 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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