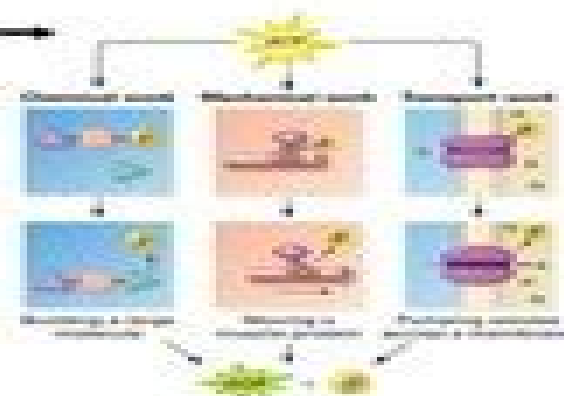


your cells use ATP energy to perform 3 main types of work:

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.

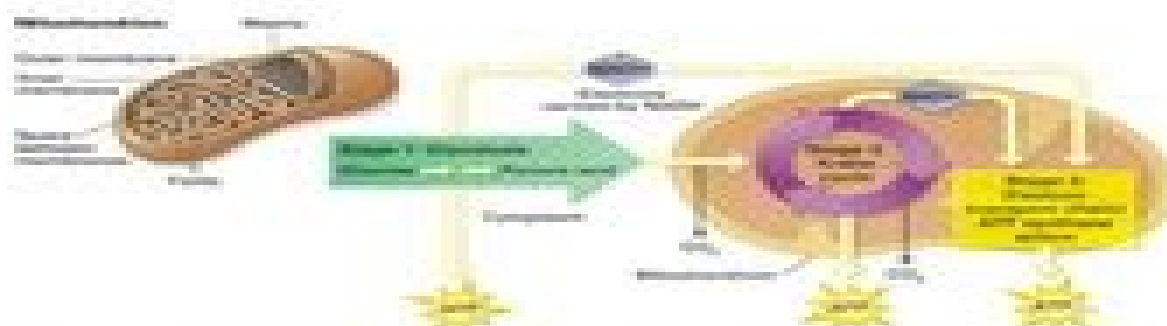


How do we recycle ATP? your cells need oxygen and glucose? brought oxygen by breathing. where the by-product of cellular respiration (CO₂) is breathing out?



In cellular respiration, the atoms in glucose and oxygen are rearranged, forming 6 carbon dioxide molecules. 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 it takes place	What it does	What it produces	How many ATP molecules are produced
Glycolysis	Breaks down glucose into two molecules of pyruvate	2 ATP	2
Citric Acid Cycle	Breaks down pyruvate into two molecules of carbon dioxide	2 ATP	2
Electron Transport Chain	Uses electrons from the previous stages to produce ATP	34 ATP	34

Biology Cellular Respiration And Photosynthesis Study Guide

CL Gary



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Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study

strategies common problem areas and provides a set of study questions both multiple choice and short answer **Barron's Science 360: A Complete Study Guide to Biology with Online Practice** Barron's Educational Series, Gabrielle I. Edwards, Cynthia Pfirrmann, 2021-09-07 Barron's Science 360 provides a complete guide to the fundamentals of biology Whether you're a student or just looking to expand your brain power this book is your go-to resource for everything biology Back cover Engineering Dynamics Exam Study Guide cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com ASAP Biology: A Quick-Review Study Guide for the AP Exam The Princeton Review, 2018-01-30 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide *Cracking the AP Biology Exam LIKE CLASS NOTES ONLY BETTER* The Princeton Review's ASAP Biology is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can't bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside ASAP Biology you'll find Essential concepts terms and functions for AP Biology all explained clearly concisely Diagrams charts lists and graphs for quick visual reference A three pass icon system designed to help you prioritize learning what you MUST SHOULD and COULD know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that's perfect for last minute exam prep and for daily class work Topics covered in ASAP Biology include The chemistry of life Evolutionary biology Cells cellular energetics Heredity molecular genetics Animal structure function Behavior ecology Quantitative skills biostatistics and more Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide *Cracking the AP Biology Exam* *Advanced Placement Biology: Study and Review* Cybellium Ltd, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges

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