

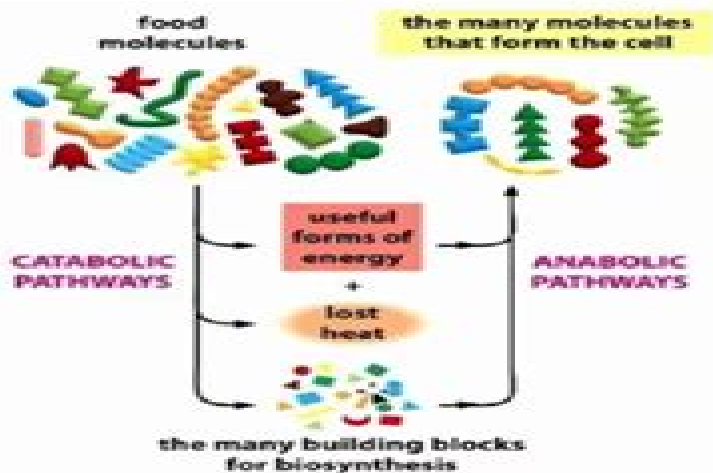
Module 2: Metabolism/Photosynthesis/Enzymes

2.1, Metabolism

Metabolism – Refers to all chemical reactions occurring within a cell.

Anabolic Reactions – build up, consumes energy.

Catabolic Reaction – break down, releases energy.



Catabolic and Anabolic Pathways

| Catabolic Pathways | Anabolic Pathways | All Metabolic Pathways |
|--|--|--|
| Breakdown of molecules | Building molecules | Tightly regulated (occur only as needed) |
| Overall release energy | Overall consume energy | Necessary for cell survival |
| Rely on oxidized coenzymes (especially NAD ⁺) to oxidize intermediates | Rely on reduced coenzymes (especially NADPH) to reduce intermediates | Require enzymes |
| Example: cellular respiration | Example: lipid biosynthesis | — |

Enzymes are biological catalysts, they accelerate a reaction by making it more energetically favorable. They lower the activation energy of a reaction. They are proteins, their structure being dictated by the DNA sequence that encodes for it. They are not used up in the reaction.

Cofactor – metal ions that activate or enhance enzyme activity (Ca²⁺, Zn²⁺)

Substrate – the target of the enzyme

Metabolism Energy And Enzymes Study Guide

W. J. Leverich



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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

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Table of Contents Metabolism Energy And Enzymes Study Guide

1. Understanding the eBook Metabolism Energy And Enzymes Study Guide
 - The Rise of Digital Reading Metabolism Energy And Enzymes Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Metabolism Energy And Enzymes 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 Metabolism Energy And Enzymes Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Metabolism Energy And Enzymes Study Guide
 - Personalized Recommendations
 - Metabolism Energy And Enzymes Study Guide User Reviews and Ratings
 - Metabolism Energy And Enzymes Study Guide and Bestseller Lists

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