

Enzymes Study Guide

All of the reactions occurring in a cell require enzymes. Cells are sometimes described as “bags of enzymes” because enzymes are so critical to every cellular process and each cell contain many thousands of them. Besides the other roles they play in cells, proteins also serve as enzymes.

(Refer to Chapters 2 and 3)

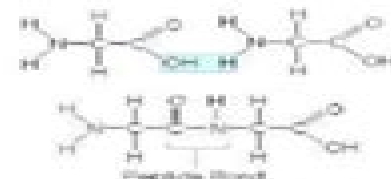
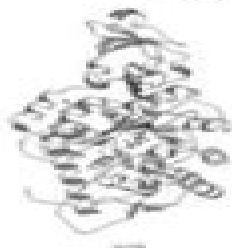
Enzymes

- Draw and label an energy hill diagram for reactions with and without an enzyme.
- Define **activation energy**.
- Define the term **catalyst**. Distinguish between a **catalyst** in general and an **enzyme**
- Describe the chemical makeup of an enzyme.
- Describe and/or draw a “**lock and key**” model of enzyme function. Define the **active site** of an enzyme
- Identify the enzyme, **substrate**, and **products** in an enzymatic reaction.
- Interpret graphs showing the reaction rates of enzymes under various conditions.
- Explain the relationship between enzymes and **substrates**.
- Identify enzymes and substrates for labs performed in class.
- Explain and/or describe the results of lab activities and/or demos.
- Explain the effect of the following factors on enzyme function: pH, temperature, heavy metal.
- Explain why an enzyme no longer functions if it is **denatured** (i.e.: if its shape is changed).



Proteins

- Describe the chemical structure of proteins. (i.e.: know the “building blocks”)
- Know the structure of an **amino acid**. Know what makes each one different.
- Draw and/or recognize a **dehydration synthesis** (condensation) reaction to create a dipeptide (2 a.a. linked together).
 - Locate **peptide bonds** within a picture of a polypeptide.
 - Explain why different proteins have different shapes and explain why the shape of a protein is important.
 - Explain the relationship between proteins and DNA.



A molecule of water is released from two glycine amino acids to form a peptide bond.

Enzymes Study Guide Answers

SJ Ball



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Table of Contents Enzymes Study Guide Answers

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

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