



## PRE-LAB QUESTIONS

1. List three conditions that would alter the activity of an enzyme. Be specific with your explanations. Temperature, pH, and concentration

Temp: raising the temp speeds up a reaction and lowering temp slows it down.

pH: enzymes have a unique pH range. Having a different pH than needed can cause an enzyme to slowdown. Have a extremely high pH can cause a enzyme to lose its shape.

Concentration: increasing concentration will speed up the reaction if there are multiple substrates for the enzyme to bind to.

2. Describe two different catalysts and explain why they would be used in a chemical reaction.

Homogenous Catalyst: reaction mixture and catalyst are both present in the same phase, in which, leads to high interaction and high reactivity under selective conditions.

Heterogenous Catalyst: catalysts exist in a different phase than the reaction mixture. Dominate major industrial processes because of the easy separation of product and recovery of catalyst.

3. What are the practical applications of using enzymes?

Everyday items such as food, gasoline for cars, and cleaning supplies

## EXERCISE 1: ENZYME ACTIVITY ANALYSIS

### Data Sheet

**Table 1: Effect of Temperature on Enzyme Activity**

# Escience Answers To Lab 9 Enzymes

**L Towne**



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## **Table of Contents Escience Answers To Lab 9 Enzymes**

1. Understanding the eBook Escience Answers To Lab 9 Enzymes
  - The Rise of Digital Reading Escience Answers To Lab 9 Enzymes
  - Advantages of eBooks Over Traditional Books
2. Identifying Escience Answers To Lab 9 Enzymes
  - 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 Escience Answers To Lab 9 Enzymes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Escience Answers To Lab 9 Enzymes

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

- Fact-Checking eBook Content of Escience Answers To Lab 9 Enzymes
  - 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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