

Enzyme Cut-outs Activity

Objectives: Enzymes are proteins that help chemical reactions occur at a faster rate by lowering the energy needed for the reactions. First, the enzymes react with a substrate to form an enzyme-substrate complex (like a lock and key). Once this complex is formed, the substrate becomes a product or products and leaves the enzyme. The enzyme can then repeat the reaction with more substrate. The enzyme is shaped so it will react with only one specific substrate. On the next page are shapes of enzymes, substrates, and products. Your job will be to cut them out, manipulate them, glue them, and explain the reaction that occurs. Complete Parts A, B, C, D.

Materials

Directions and class notes
cut-out sheet

construction paper
scissors

glue
pen or pencil

Part A

Vocabulary—define the following terms (hint: you can use your notes!)

enzyme –
catalyst –
chemical reaction –
activation energy –
substrate –
active site –
denatured –

THEN—fold your card strip into four sections.

NEXT – open your card strip and draw a line lengthwise along the middle

THEN: color the diagrams on the white cardstock according to the following:

Enzyme – PINK

Triangular Substrate – PURPLE

Product 1 – BLUE

Product 2 – RED

Square Substrate 1 – YELLOW

Square Substrate 2 – BLUE

Rectangular Product – GREEN

Part B: HYDROLYSIS

1. In the first block of your strip, label the TOP with the word **Hydrolysis**

Then - Using the enzyme cut-out card stock paper, cut out all of the triangular shaped enzymes, substrates, and products.

2. **ACROSS THE TOP:** Organize the cut outs on the remaining blocks of your strip as the pieces demonstrate this equation:

enzyme + substrate → enzyme-substrate complex → enzyme + product 1 + product 2

3. Glue the cut outs in the appropriate places on the construction paper and then label each block with the above terms.

Enzyme Cut Out Activity Answers Key

PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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Table of Contents Enzyme Cut Out Activity Answers Key

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

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