

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

Ying-Ying Zheng



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