

Enzyme Cut-outs Activity

Objective: 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 this 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
pencil or pen

Part A

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

enzyme —
catalyze —
chemical reaction —
activation energy —
substrate —
active site —
denatured —

Part B

1. Using one sheet of the cut-out paper, cut out all the enzymes, substrates, and products.
2. Organize the cut outs on the construction paper so the pieces demonstrate this equation:
 $\text{enzyme} + \text{substrate} \rightarrow \text{enzyme-substrate complex} \rightarrow \text{enzyme} + \text{product 1} + \text{product 2}$
3. Glue the cut outs in the appropriate places on the construction paper.
4. Label the catalyst that you glued as the following compound:

Enzyme = lactase
Substrate = lactose
Products = glucose and galactose

5. With the above terms and equation, **explain** what happened (write your explanation on the same side of construction paper). Use as many vocabulary words from Part A as you can.

Part C

1. Using the other sheet of the cut-out paper, cut out all enzymes, substrates, and products.
2. Follow the directions as above, this time demonstrating this equation:
 $\text{enzyme} + \text{substrate 1} + \text{substrate 2} \rightarrow \text{enzyme-substrate complex} \rightarrow \text{enzyme} + \text{product}$
3. As with the previous sheet, glue and label the cutouts as the following compounds:

Enzyme = Sucrase
Substrates = glucose and fructose
Product = sucrose

4. With the above terms and equation, **explain** what happened (write your explanation on the same side of construction paper). Use as many vocabulary words from Part A as you can.

Enzyme Cut Out Activity Answer Sheet

Michael Hoelscher

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

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