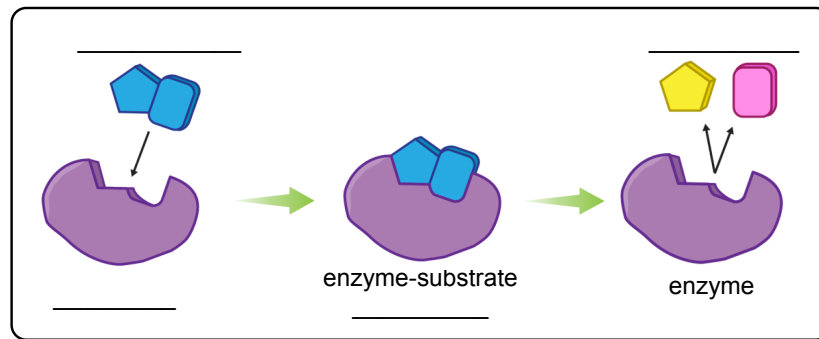


CONCEPT: INTRO TO ENZYMES

- **Enzymes:** _____ or non-protein molecules, act as catalysts by _____ up rates of biochemical reactions.
 - They do so by lowering the _____ energy (E_a) of a reaction.
 - **Recall:** Activation Energy is the _____ energy required for a reaction to occur.
 - Enzymes themselves are _____ altered or consumed in the reaction.



- **Substrate:** a _____ which binds with enzyme; much _____ than the enzyme.
 - Transforms into product(s).

EXAMPLE: Which of the following is correct about enzymes?

- a) Enzymes are capable of speeding up biochemical reactions.
- b) Enzymes are consumed in the biochemical reactions they catalyze.
- c) Enzymes speed up biochemical reactions by increasing the activation energy of the reaction.
- d) Enzymes are molecules that are transformed into products, while substrates facilitate the reactions.