

ENZYME PRACTICE

Name Answer Key

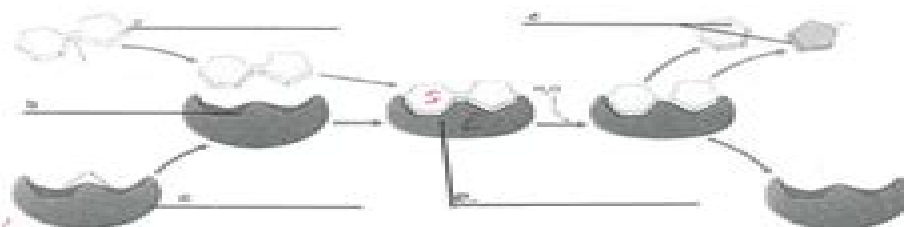
Date _____ Per _____

1. Define the following terms in your own word. Be clear and concise!

metabolism	sum of all the chemical processes in an organism
substrate	the substance that an enzyme works on <i>ie. food, production of hydrogen, DNA</i>
enzyme	a chemical, usually a protein, that lowers the activation energy of a reaction without being consumed by the reaction. It might change shape during the reaction but returns back to what it was afterwards. Enzymes are specific to particular substrates.
enzyme-substrate complex	enzyme joined to substrate
active site	the place on the enzyme that actually binds with the substrate
coenzyme	A coenzyme is a substance that works with an enzyme to <u>initiate</u> or <u>aid</u> the function of the enzyme. Coenzymes cannot function on their own and require the presence of an enzyme.
metabolic pathway	a series of chemical reactions within cells, mediated by enzymes
activation energy	the energy needed (endergonic) to initiate a chemical reaction.

2. Label the diagram to the left

- substrate
- active site
- enzyme
- products
- enzyme substrate complex



the enzyme + substrate together!

3. Answer true or false to the following statements:

- ☐ Enzymes interact with specific substrates.
- ☐ Enzymes change shape after a reaction occurs.
- ☐ Enzymes speed up reactions.
- ☒ One enzyme can be used for many different types of chemical reactions. *No. They are "specific"*
- ☐ Enzyme reactions can be slowed or halted using inhibitors.

4. Circle the correct effect.

- Raising the temperature slightly will [increase] [decrease] [not change] the rate of reaction.
- Boiling temperature will [increase] [decrease] [not change] the rate of reaction.
- Changing the pH toward the optimal pH will [increase] [decrease] [not change] the rate of reaction.
- Introducing a competitive inhibitor will [increase] [decrease] [not change] the rate of reaction.

5. Place a check mark next to the things that are expected to INCREASE the rate of an enzymatic reaction

- ☒ Add more enzyme
- ☒ Add more substrate
- ☒ Adjust pH to optimal level
- ☐ Add a non competitive inhibitor
- ☐ Freezing *slows down, ex. putting food in freezer to preserve.*

Enzyme Review Sheet Answer Key

**Charles Jelleff Carr, Kenneth D.
Fisher, John M. Talbot**



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