

# ENZYME PRACTICE

Name Answer Key

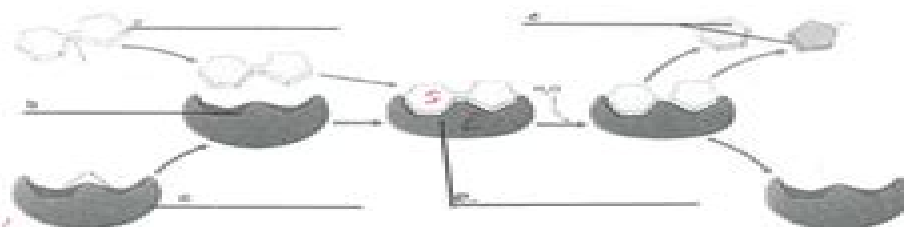
Date \_\_\_\_\_ Per \_\_\_\_\_

## 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

**N Colangelo**



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