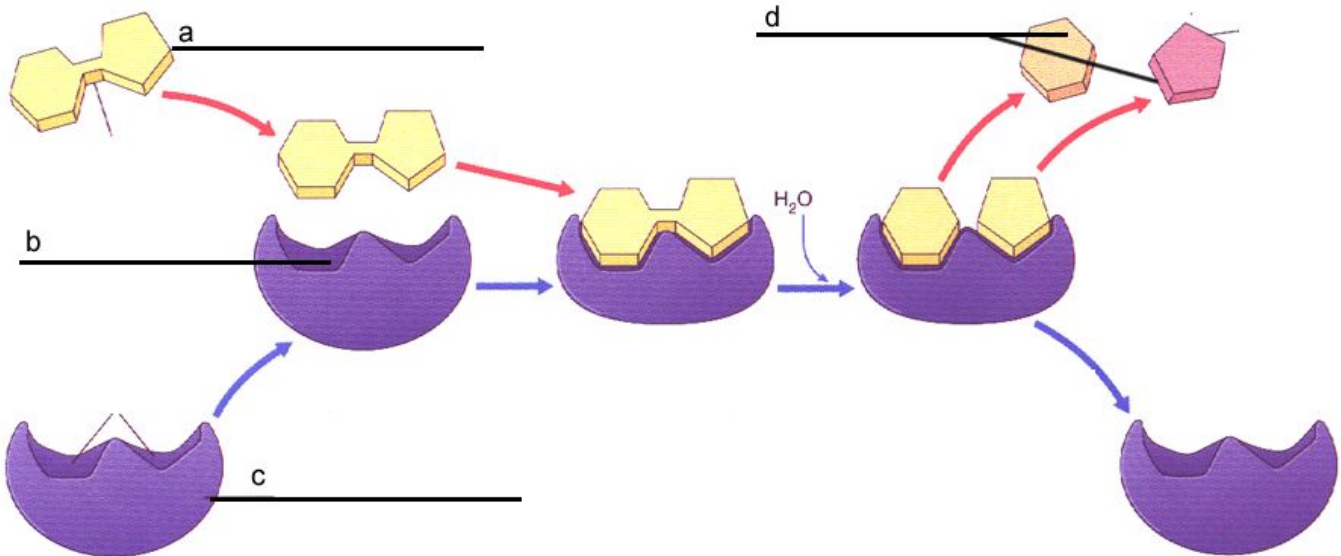


Enzymes - Analyzing Graphics

1. Label the diagram



2. Answer true or false to the following statements:

- a. _____ Enzymes interact with a specific substrate.
- b. _____ Enzymes change shape after a reaction occurs.
- c. _____ Enzymes speed up reactions.
- d. _____ One enzyme can be used for many different types of chemical reactions.
- e. _____ Enzyme reactions can be slowed or halted using inhibitors.

3. Circle the correct effect.

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

4. Place a checkmark next to the things that are expected to INCREASE the rate of an enzymatic reaction

- a. _____ Add more enzyme
- b. _____ Adjust pH to optimal level
- c. _____ Freezing
- d. _____ Add more substrate
- e. _____ Add an allosteric inhibitor