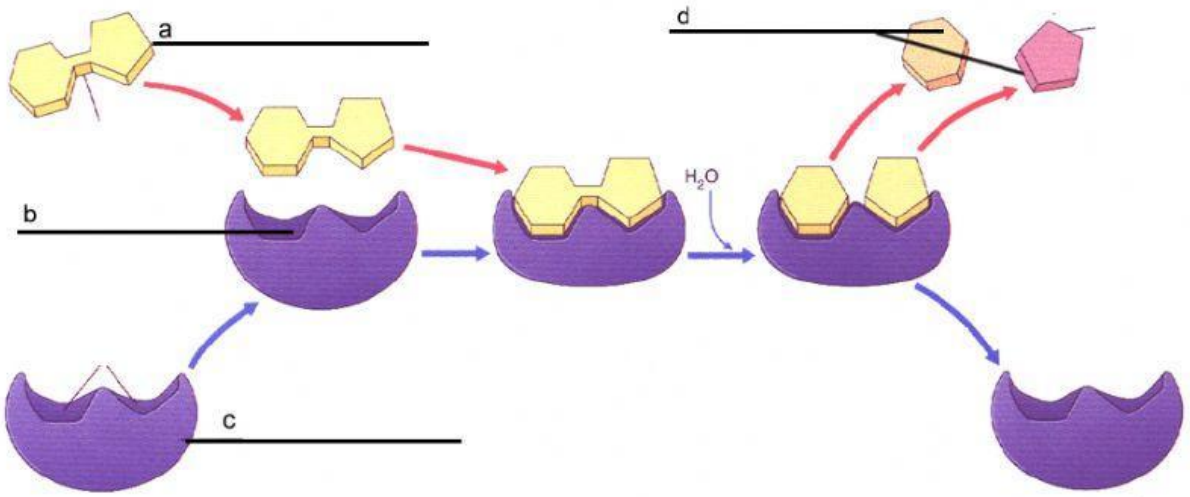
Enzyme Review

1. Label the diagram with terms from Chapter 2.



2. Answer true of false to the following statements:

a. _____ Enzymes interact with specific substrates.

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 will [increase | decrease | not change] the rate of reaction.

b. Boiling temperature will [increase | decrease | not change] the rate of most biological reactions.

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 check mark next to the things that are expected to INCREASE the rate of an enzymatic reaction

a. _____ Add more enzyme

b. _____ Add more substrate

c. _____ Adjust pH to optimal level

d. _____ Add a non-competitive inhibitor

e. _____ Freezing

LIVEWORKSHEETS