ENZYME PRACTICE

1. Label the diagram

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 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 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