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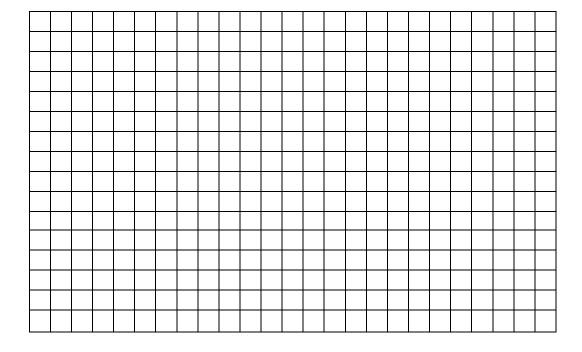
## Worksheet: Enzymes

**Directions**: Answer the following questions using your lecture notes and textbook (pages 50-56)

1. What is activation energy?

2. What is the difference between an **exothermic** and **endothermic** reaction?

- 3. What is a catalyst?
- 4. Complete the graph below show what would happen to the activation energy if a catalyst were introduced to the chemical reaction. (see figure 2.22, page 54) Include and label: activation energy (uncatalyzed), activation energy (catalyzed), reactants, and products



5. What is an <b>enzyme</b> ? Give at least one example of an enzyme found in the human body.
6. What kind of organic compound is an enzyme?
7. Name two conditions that effect the action of an enzyme?
8. What does changing pH and temperature effect the action of an enzyme?
9. What does the enzyme amylase do and where is it found in the human body?
10. Draw a diagram showing the lock-and-key model (diagram on page 56) Label <b>substrate</b> , <b>enzyme</b> , and <b>product</b>