Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Enzyme Reading Assignment**

**Read pages 50 – 53**

What are the two parts of a chemical reaction?

What is the Activation Energy of a chemical reaction?

What is the difference between an EXOTHERMIC reaction and an ENDOTHERMIC reaction? (You will have to look those terms up and relate them to Figure 2-20 on page 51)

What is a catalyst? How does it help a chemical reaction move forward?

What are enzymes?

How doe enzymes help regulate the elimination of carbon dioxide from your body?

What is a substrate? What is the name of the place where it binds to an enzyme?

What are the factors that affect enzyme activity?

**BONUS**: Substrates fit into an enzyme by what is called an “Induced fit”, not a lock and a key. Explain the difference between the two ideas.