

Enzymes Study Guide

All of the reactions occurring in a cell require enzymes. Cells are sometimes described as “bags of enzymes” because enzymes are so critical to every cellular process and each cell contain many thousands of them. Besides the other roles they play in cells, proteins also serve as enzymes.

(Refer to Chapters 2 and 3)

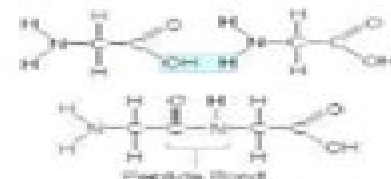
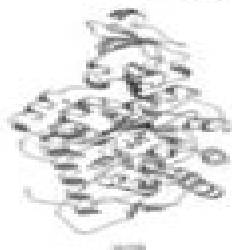
Enzymes

- Draw and label an energy hill diagram for reactions with and without an enzyme.
- Define **activation energy**.
- Define the term **catalyst**. Distinguish between a **catalyst** in general and an **enzyme**
- Describe the chemical makeup of an enzyme.
- Describe and/or draw a “**lock and key**” model of enzyme function. Define the **active site** of an enzyme
- Identify the enzyme, **substrate**, and **products** in an enzymatic reaction.
- Interpret graphs showing the reaction rates of enzymes under various conditions.
- Explain the relationship between enzymes and **substrates**.
- Identify enzymes and substrates for labs performed in class.
- Explain and/or describe the results of lab activities and/or demos.
- Explain the effect of the following factors on enzyme function: pH, temperature, heavy metal.
- Explain why an enzyme no longer functions if it is **denatured** (i.e.: if its shape is changed).



Proteins

- Describe the chemical structure of proteins. (i.e.: know the “building blocks”)
- Know the structure of an **amino acid**. Know what makes each one different.
- Draw and/or recognize a **dehydration synthesis** (condensation) reaction to create a dipeptide (2 a.a. linked together).
 - Locate **peptide bonds** within a picture of a polypeptide.
 - Explain why different proteins have different shapes and explain why the shape of a protein is important.
 - Explain the relationship between proteins and DNA.



A molecule of water is released from two glycine amino acids to form a peptide bond.

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Edward J. Zalisko



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