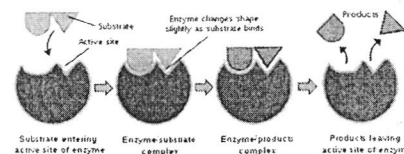


NAME \_\_\_\_\_ Period \_\_\_\_\_



# CHEMISTRY / MACROMOLECULES / WATER / ENZYME REVIEW

## CARBOHYDRATE REVIEW

- List 3 foods that contain mostly carbohydrates. Bread Pasta  
Potato, Soda, Candy
- Carbohydrates are chains of what smaller organic molecule? Sugar / monosaccharide
- Draw a simple picture of this smaller building block molecule.

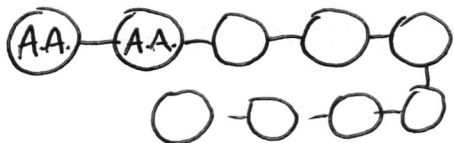
Hexagon  
or  
Pentagon



- List 3 ways that living creatures use carbohydrates and list the name of the carbohydrate used.
  - Quick Energy Glucose - Sugar
  - Energy storage Starch or Glycogen
  - Structural Cellulose (Plants) - Chitin (exoskeleton)
- List the names of 3 sugars. glucose fructose lactose
- Most carbohydrates end in what 3 letters? ose
- Another name for a simple (single) sugar is... Monosaccharide
- What is meant by a monosaccharide? 1 Sugar

## PROTEIN REVIEW

- List 3 foods that contain mostly proteins. meat - Nuts - Beans  
steak  
Protein shake
- List 3 ways that living creatures use proteins.  
Enzymes - Antibodies - Hormones (messengers)
- Proteins are chains of what smaller organic molecule? Amino Acids
- Draw a simple picture of a protein showing this chain of smaller molecules.



## NUCLEIC ACIDS

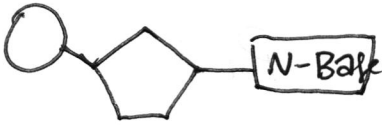
- What are the functions of a nucleic acids in living organisms?
  - Information Molecules.
  - Transfer of Info.

2. What is the building block (monomer) for a nucleic acids? Nucleotide

3. What are the 3 parts of a nucleic acid monomer?

Phosphate      Sugar      N-Base

4. Draw a simple diagram of the nucleic acid building block.



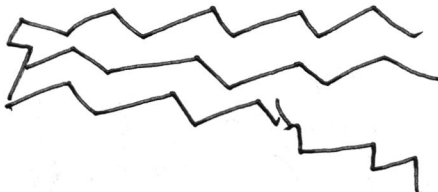
**LIPIDS**

1. List 3 foods that contain mostly Lipids or Fats. Fat      oil

Butter

2. Most lipids are built of two building blocks. Name the two building blocks. Glycerol & Fatty Acid

3. Draw a simple picture and label it: Triglyceride and a Phospholipid below.

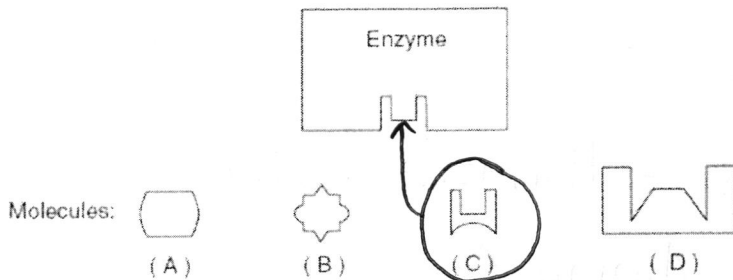


4. List 3 ways that living creatures use lipids and name the lipid that is used for the function

- a. Insulation - Fats
- b. Energy storage - Fats/oils
- c. Cushion Organs - Fats
- d. Cell membranes - phospholipids

**ENZYME REVIEW**

1. An enzyme and four different molecules are shown in the diagram below.



Make a defense!! Which molecule would the enzyme break down? Defend your statement

C - It fits the shape of the active site.

2. Draw a picture that shows me that you understand what happens to an Enzyme when it is subjected to an extreme temperature or Acid

