

Name: \_\_\_\_\_

**Honors Biology Chapter 3 Test Preparation**

Your Chapter 3 test (Biochemistry) will be on \_\_\_\_\_.

The test will consist of \_\_\_\_\_ multiple choice and \_\_\_\_\_ short answer.

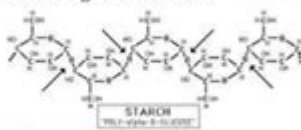
This is NOT an assignment, however to be successful on the exam you must be able to answer each question!

- What makes carbon 'special' (how many valence electrons does it have, what kind of bonds can it form, what shapes can it make)? **Carbon has 4 valence electrons giving 4 places available for bonding. It can form strong but flexible covalent bonds that form straight chains, rings, branches chains, etc.**
- What are the four *macromolecules* that make up life? **Carbs, lipids, protein, nucleic acids**
- What is a hydrocarbon? **A molecule consisting of only hydrogen and carbon**
- What is an isomer? **Molecules that have the same molecule formula, but different structural formulas.**
- What is a functional group? **A group of atoms that gives molecules it is a part of its properties.**
- What is a monomer? Polymer? **Monomer is a small subunit that through dehydration synthesis can form large polymers which are simply monomers linked together by covalent bonds.**
  - What type of reaction occurs when you put monomers together to form a polymer? **Dehydration synthesis**
  - What type is it when you take a polymer apart? **Hydrolysis**
- Carbohydrate? **A group of molecules that provide energy and structure.**
  - What are the functional groups? **Hydroxyl (-OH), and Carbonyl (-COH)**
  - What do we call the monomers? **monosaccharides**
    - What are 2 examples of the monomers? **Glucose, fructose, and (galactose)**
    - What are the isomers of glucose? **Fructose and galactose**
  - What do we call the polymers? **polysaccharides**
    - What are 3 examples of the polymers (& where are they found)? **Cellulose – give structure to plants, starch – energy storage for plant, glycogen – energy storage for animals.**
  - What is the function of carbohydrates? **Structure and energy**
  - What types of foods contain this macromolecule? **Breads, rice, pasta**
  - How do we test for carbohydrates in foods? (think of the nutrient lab) **Benedicts – monosaccharides (turns from blue to green/red), Lugol's Iodine solution – polysaccharides (turns bluish/black)**

g. What does glucose look like?



What does starch look like?



- Lipids? **Fats and such!**
  - What are the functional groups? **Amino (NH<sub>2</sub>) and Carboxyl (-COOH)**
  - What are 2 examples of the monomers? **Glycerol and fatty acids**
  - What are 4 examples of the polymers? **Triglyceride, wax, steroids, phospholipids**
  - What is the function of lipids? **Long term energy, make up cell membranes (both phospholipids and steroids – cholesterol), provide waterproof coatings for organisms that dry out like plants and insects**  
**Remember – too much cholesterol in the blood can lead to atherosclerosis (plaque build up in the arteries)**
  - What types of foods contain this macromolecule? **Oils, butter, lard**

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