

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!

1. 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.**
2. What are the four *macromolecules* that make up life? **Carbs, lipids, protein, nucleic acids**
3. What is a hydrocarbon? **A molecule consisting of only hydrogen and carbon**
4. What is an isomer? **Molecules that have the same molecule formula, but different structural formulas.**
5. What is a functional group? **A group of atoms that gives molecules it is a part of its properties.**
6. 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.**
 - a. What type of reaction occurs when you put monomers together to form a polymer? **Dehydration synthesis**
 - b. What type is it when you take a polymer apart? **Hydrolysis**
7. Carbohydrate? **A group of molecules that provide energy and structure.**
 - a. What are the functional groups? **Hydroxyl (-OH), and Carbonyl (-COH)**
 - b. What do we call the monomers? **monosaccharides**
 - i. What are 2 examples of the monomers? **Glucose, fructose, and (galactose)**
 - ii. What are the isomers of glucose? **Fructose and galactose**
 - c. What do we call the polymers? **polysaccharides**
 - i. 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.**
 - d. What is the function of carbohydrates? **Structure and energy**
 - e. What types of foods contain this macromolecule? **Breads, rice, pasta**
 - f. How do we test for carbohydrates in foods? (think of the nutrient lab) **Benedict's – 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?



8. Lipids? **Fats and such!**
 - a. What are the functional groups? **Amino (NH₂) and Carboxyl (-COOH)**
 - b. What are 2 examples of the monomers? **Glycerol and fatty acids**
 - c. What are 4 examples of the polymers? **Triglyceride, wax, steroids, phospholipids**
 - d. 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)**
 - e. What types of foods contain this macromolecule? **Oils, butter, lard**

Honors Biology Chapters And Test

D Kirk



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