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Macromolecule comparison table worksheet answers pdf answers answer

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Matrix	Linear poly-acrylamide (%w/w)	Denaturant composition	Buffer Composition
MegaBACE Gel Matrix (HEC) (Amersham/ Pharmacia)		6M urea, 10% (w/w) formamide	30mM Tris:100mM TAPS: 1mM EDTA
MegaBACE™ Long read matrix (Amersham/ Pharmacia)	3%	6M urea	30mM Tris:100mM TAPS: 1mM EDTA
LPA formulation LPA-PYR	2.0%	6M urea, 20% (w/w) 2-pyrrolidinone	30mM Tris:100mM TAPS: 1mM EDTA
LPA formulation LPA-DMA	2.0%	6M urea, 20% (w/w) N',N'-dimethylaceta mide	30mM Tris:100mM TAPS: 1mM EDTA
LPA formulation LPA-DMF	2.0%	6M urea, 20% (w/w) N', N'-dimethylformami	30mM Tris:100mM TAPS: 1mM EDTA



Synthesis of Macromolecules Organization for Matter and Energy Flow in Organisms

Macromolecule Structure and Function

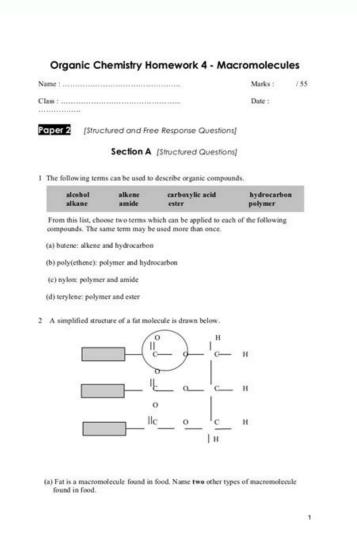
Activity, continued

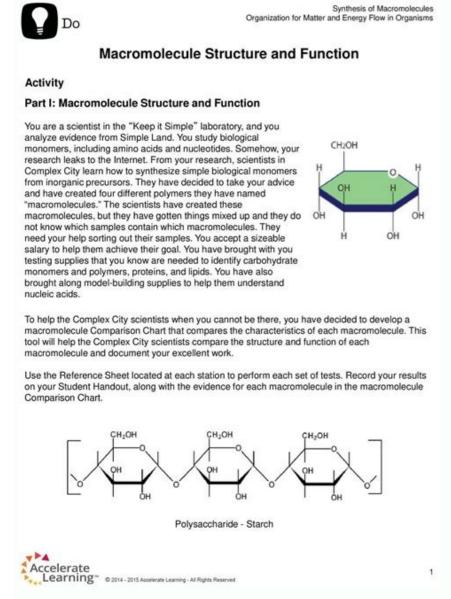
Part I: Macromolecule Structure and Function, continued

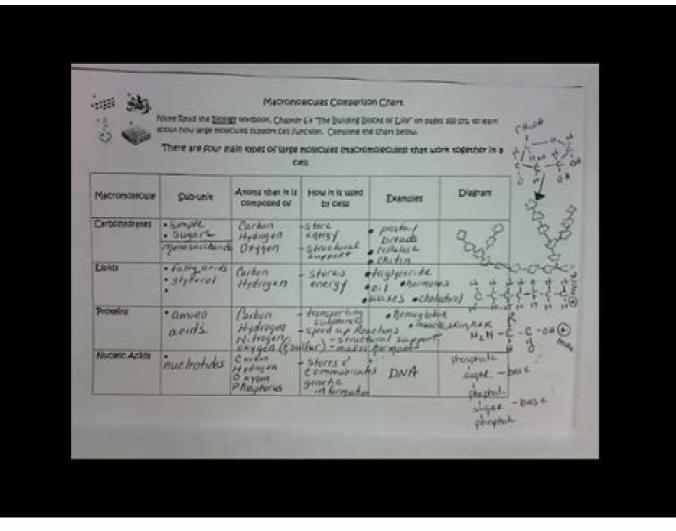
Macromolecule: Carbohydrate					
est Tube	Observatio	ins	Conclusion		
A1					
B1					
A2					
B2					
Water					
	Macron	nolecule: Protein			
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Sample	Observations of Transp transparent, 5-not at a		Conclusion		
А	Transparency Level:	1 2 3 4 5			
В	Transparency Level:	1 2 3 4 5			
С	Transparency Level:	1 2 3 4 5			
Water	Transparency Level:	12345			



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Dehydration and hydrolysis reactions are similar for all macromolecules, but each monomer and polymer reaction is specific to its class. Transcript Macromolecule Comparison Chart Organic molecules are based on CARBON. Figure 2. Proteins are broken down by the enzymes pepsin and peptidase, and by hydrochloric acid. Lipids are broken down by lipases. At the same time, the monomer share electrons and form covalent bonds. Note that this reaction is the reverse of the synthesis reaction shown in Figure 1. Biological macromolecules are organic, meaning they contain carbon. A monomer joins with another monomer with the release of a water molecule, leading to the formation of a covalent bond. Dehydration and hydrolysis reactions are catalyzed, or "sped up," by specific enzymes; dehydration reactions involve the formation of new bonds, requiring energy, while hydrolysis reactions involve the formation of new bonds, requiring energy, while hydrolysis reactions involve the formation of new bonds, requiring energy, while hydrolysis reactions involve the formation of new bonds, requiring energy, while hydrolysis reactions involve the formation of new bonds, requiring energy. glucose monomers are the constituents of starch, glycogen, and cellulose. The polymer is more than the sum of its parts: it acquires new characteristics, and leads to an osmotic pressure that is much lower than that formed by its ingredients; this is an important advantage in the maintenance of cellular osmotic conditions. For instance, carbohydrates are broken down by amylase, sucrase, lactase, or maltase. In the dehydration synthesis reactions are known as dehydration or condensation reactions. Combined, these molecules make up the majority of a cell's dry mass (recall that water makes up the majority of its complete mass). Check Your Understanding Answer the question(s) below to see how well you understand the topics covered in the previous section. Each is an important cell component and performs a wide array of functions. No rubric included- the rigor level of the organizer can varied based on class, student need, or teacher preference; because of this, the rubric varies and can be easily developed by the teacher. Hydrolysis, which means "to split water," a reaction in which a water molecule is used during the breakdown (Figure 2). Proteins, carbohydrates, nucleic acids, and lipids are the four major classes of biological macromolecules. In a dehydration synthesis reaction (Figure 1), the hydrogen of one monomer combines with the hydroxyl group of another monomer, releasing a molecule of water. This type of reaction is known as dehydration synthesis, which means "to put together while losing water." Figure 1. As additional monomers join, this chain of repeating monomers forms a polymer. Breakdown of these macromolecules provides energy for cellular activities. You are What You Eat Comparing the Biological Macromolecules Macromolecule Basic Formula, key features Monomer Examples Uses Proteins CHON -NH2 + -COOH +R group Amino acids Enzymes, some hormones Storage; Protection; Chemical messengers; Repel water Carbohydrates C:H:O 1:2:1 Monosaccharides Glucose, Fructose, Starch, Glycogen, Cellulose Energy storage; Structure Nucleic Acids CHONP pentose, nitrogenous base, phosphate Nucleotides DNA, RNA Genetic information Dehydration Synthesis Most macromolecules are made from single subunits, or building blocks, called monomers. As we've learned, there are four major classes of biological macromolecules: Proteins (polymers of amino acids) Carbohydrates (polymers of nucleotides) Let's take a closer look at the differences between the difference classes. In the hydrolysis reaction shown here, the disaccharide maltose is broken down to form two glucose monomers with the addition of a water molecule. These reaction is specific for its class. Each macromolecule is broken down by a specific enzyme. Organic Building important? During these reactions, the polymer is broken into two components: one part gains a hydroxyl molecule (OH-) from a split water molecule (OH-) from a split water molecule. Use this quiz to check your understanding and decide whether to (1) study the previous section further or (2) move on to the next section. Macromolecules, Elements Subunits Functions: Examples: *From the Biomolecules, Periodic Table Monomers, Why are Where can we of Elements they find them? Compunds Blocks C,H,O *Starch Carbohydrates are *Shortterm energy Carbohydrates are *Shortterm energy Carbohydrates Carbon, hydrogen, *Glycogen (liver) built by combining storage oxygen 1:2:1 ratio Ex: C6H12O6 Glucose (simple sugar) Lipids: Fats monosaccharides *Quickrelease (simple sugars) energy C,H, very Fatty Acids little O Carbon, hydrogen, very little oxygen Nucleic Acids Found in the cell nucleus Proteins *Insulation: store body heat *Protection: cell membranes *Longterm energy storage C,H,O,N, Nucleotides Store and made of: P transmit 1) Nitrogen base Carbon, Hydrogen Oxygen, Nitrogen 2) Sugar compound genetic 3) Phosphate group Phosphorus information C,H,N,O, P,S Carbon, hydrogen, nitrogen, oxygen, phosphorus, sulfur Amino Acids *Joined by peptide bonds to form a polypeptide chain (protein) *Change the rate of chemical reactions (enzymes) *regulate cell processes *Give bodies structure *Transport materials into and out of the cell Ex: oxygen (hemoglobin) *Sugars - glucose, fructose, sucrose *Celluose - plant cell walls Test(s) Iodine: turns purple/blue in the presence of simple sugars such as glucose Fats Oils Waxes Steroids Cholesterol Brown Paper Bag Test Sudan III/IV DNA Deoxyribonucleicacid Sugar: deoxyribose RNA Ribonucleicacid Sugar: ribose RNA Ribonucleicacid Sugar: ribose RNA Ribonucleicacid Sugar: deoxyribose RNA Ribonucleicacid Sugar: notes page, activity, review, study aid, or warm up depending on the progress of the class. Dehydration reactions typically release energy by breaking bonds. The monomers combine with each other using covalent bonds to form larger molecules known as polymers. When polymers are broken down into smaller units (monomers), a molecule of water is used for each bond broken by these reactions. In doing so, monomers release water molecules as byproducts. This short quiz does not count toward your grade in the class, and you can retake it an unlimited number of times. Macromolecules are made up of single units known as monomers that are joined by covalent bonds to form larger polymers. This allows for easy absorption of nutrients by cells in the intestine. In addition, they may contain hydrogen, oxygen, nitrogen, and additional minor elements. In the process, a water molecule is formed. Different types of monomers can combine in many configurations, giving rise to a diverse group of macromolecules (carbohydrates, lipids, proteins, and nucleic acids), let's talk about macromolecules as a whole. For example, in our bodies, food is hydrolyzed, or broken down, into smaller molecules by catalytic enzymes in the digestive system.

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