Name:	<del></del>						
	TOPIC 1: Biochemistry and the Molecules of Life						
	Please use the <u>Council Rock Video podcast</u> to guide you						
1.	What does it mean for a compound to be organic?						
2.	Water is (circle one) <b>polar / nonpolar</b> because the electrons are not evenly shared.						
3.	What two properties of water are mentioned?  a. b.						
4.	What is the difference between a monomer and polymer?						
5.	Dehydration synthesis water to a bond, while hydrolysis water to a bond.						
6.	Carbohydrates have a:: ratio of the elements C:H:O. Carbohydrates are the mainsource for a cell.						
7.	What are the two monomers of lipids?						

10. Amino acids (th	ne monomers of a pro	otein are made up o	of what three parts?
To. / Illino acias (ti	ic infondincis of a pro	stem are made up o	i what thirde parts.

9. Nucleic acids have the following elements: \_\_\_\_\_\_. Nucleic acids store our

a.

a. b.

b.

c.

11. How do enzymes act as biological catalysts?

8. Lipids make up the majority of the cell \_\_\_\_\_\_.

Macromolecule	Elements	Monomer and polymer	Roles
Carbohydrates	СНО	Monosaccharide/ polysaccharide	Quick/main source of energy
<u>Lipids</u>	CH and a little O	Glycerol and fatty acid/lipid	Long-term source of energy; cell membrane
Nucleic acids	CHOPN	Nucleotide / nucleic acid	Genetic material
<u>Proteins</u>	CHOSN	Amino acid /polypeptide or protein	Structure and enzymes