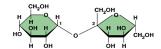
Biochemistry – STRUCTURE

Carbohydrates

- organic compounds containing carbon, hydrogen, and oxygen in the ratio 1:2:1
- made of monomers (building blocks) called monosaccharides



are the building blocks of carbohydrates

Glucose, Fructose and Galactose are monosaccharides.

Carbohydrates will usually be in a "_______ shape"

Disaccharide

Carbohydrates will usually be in a "______ shape"

Names for sugars usually end in -_____ (maltose, cellulose, fructose)

are complex carbohydrates made of long chains of monosaccharides.

[Disaccharide of long chains of monosaccharide of long chains of monosaccharides]

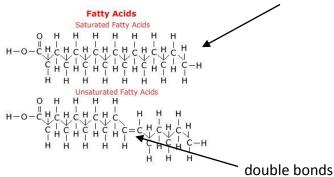
[Disaccharide of long chains of monosaccharides]

Lipids

fats, oils, waxes

Lipids are made of ______ and _____ (molecular structure is "E")

Cell membranes are made out of lipids – phospholipids – these form a barrier between the inside of the cell & the outside of the cell no double bonds



Prote	eins	
	Monomer =	
-	Amino acids have an group and a group	
	H R C	
	along with a varied group (changes depending on amino acid formed)	
-	Proteins are held together by bonds between each amino acid.	
_	Peptide bonds are formed through (loss of a water molecule) Peptide bonds can be broken by (addition of a water molecule)	cule
-	Peptide bonds can be broken by (addition of a water molecule)	
:	<u>Different shapes = different jobs</u> <u>Different amino acids = different protein</u>	
Nucle	leic Acids	
•	omer=	
•	nucleotides are made of a,,, and, and	
	$\begin{array}{c c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$	

The ______ on the nucleotide can by one of five possibilities. The _____ of the nucleotides is important because it dictates what _____ is formed

Nucleotides are chained into a polymer of _____ or _____.