## BIOCHEMISTRY VOCABULARY: Hard Copy

	MONOSACCHAPTNES (47)	
CARBOHYDRATE (47)	MONOSACCHARIDES (47)	POLYSACCHARIDES (47)
Definition: Molecule composed of	Definition: The most basic	Definition: Polymers of
carbon, hydrogen and oxygen;	carbohydrate or simple sugar	monosaccarides
includes sugars and starches		
	W 15	Word Part:
	Word Part:	Poly means <u>many</u>
	Mono- means <u>one</u> Sacchar means <u>sugar</u>	Sacchar means <u>sugars</u>
	Glucose Fructose Galactose	Starch
CH2OH	H H H	
н О н	с=0 н-с-он с=0	Cellulose
H	H-C-OH   C=O	Cellulose
OH H	<b>н</b> -с-он <b>н</b> -с-он но-с- <b>н</b>	Glycogon
НО ОН		Glycogen
H OH	H H H H	
LIPID (48)	FATTY ACID (48)	PROTEIN (49)
Definition: Non-polar molecule	Definition: Hydrocarbon chain	Definition: Polymer composed of
composed of carbon, hydrogen	often bonded to glycerol in a lipid	amino acids linked by peptide
and oxygen; includes fats and oils	3,	bonds; folds into a particular
, ,		structure depending on bonds
Word Part:		between amino acids
Lip- means <u>fat</u>		
ноннин	saturated fatty acid	
н-ċ-о <del>-</del> -ċ-ċ-ċ-ċ		R R R
8 4 4 4 4	H-O, H H H H H H H H H H H H H H	
н – с – о с – с – с – с – с – н	unsaturated fatty acid	$H_3N - C - C - N - C - C - N - C - COO -$
н — ç — о — с — ç — ç — ç — ф — н — н — н — н — н — н — н — н — н	HHHHH HH	H H H H
1 4444	H H C C C H H H H H C C H H H H	
Glycerol Fatty Acid	H-O' H H H double H H H H	Peptide Bonds
AMINO ACID (49)	NUCLEIC ACID (50)	NUCLEOTIDE (50)
Definition: Molecules that	Definition: Polymer of	Definition: Monomer that forms
contain carbon, hydrogen,	nucleotides; the genetic material	DNA and has a phosphate group,
oxygen, and nitrogen and	of organisms	a sugar, and a nitrogen-containing
sometimes sulphur; molecule that		base
makes up proteins		
	Word Part:	Word Part:
	Nuc- means <u>center</u>	Nuc- means <u>center</u>
Н	Sugarab Production	HNH
	8000 MF	H
н 🕈 💆	Admin RNA	N N H
N-G-G	Cymun. Cytoshe Cytoshe	O=P-O CH <sub>2</sub> Nitrogenous base
	S NA	Phosphate H H (adenine)
R		group OH H
	Deoxyribonucleic acid Ribonucleic acid (DNA) (RNA)	Sugar Organized 1980 Channel Chandra, bar

MONOMER (47)	POLYMER (47)	ENZYME (57)
Definition: Each subunit in the	Definition: A large molecule, or	Definition: Protein that catalyzes
complete molecule	macromolecule, made up of many	chemical reactions for organisms
	monomers bonded together	-
Word Part:	Word Part:	
Mono- means <u>one</u>	Poly- means <u>many</u>	
-mer means <u>part</u>	-mer means <u>part</u>	
Monomers		Substrate
	Monomers	Active site.
Polymer of three	Polymerization	
monomers	-200000	le. com
	Polymer	Enzyme Enzyme-substrate complex Enzyme
SUBSTRATE (58)	ACTIVATION ENERGY (55)	Independent Variable (18)
Definition: Reactant in a chemical	Definition: Energy input	Definition: Condition or factor
reaction upon which an enzyme	necessary to initiate a chemical	that is manipulated by a scientist
acts	reaction	during an experiment
Active Site Enzyme	Energy  Activation Energy  Reactants  Products	Manipulated Manipulated Independent Variable  Maxis
	Progress of reaction	variable A uxis
DEHYDRATION	HYDROLYSIS	Dependent Variable (18)
SYNTHESIS		
Definition: Monomers join	Definition: Water is added to	Definition: Experimental data
together to form polymers by	polymers. This breaks the	collected through observation
the <b>removal</b> of water	polymers into monomers.	and measurement
Word Parts:	Word Parts:	
De- means <u>remove</u>	Hydr- means <u>water</u>	
Hydr- means <u>water</u>	Lys- means <u>decompose, split</u>	
OH HO OH HO polymer + 2 H <sub>2</sub> O	polymer  hydrolysis reaction  monomer  monomer  monomer  monomer  monomer  monomer  monomer	DRY: Dependent Responding Y axis  Defect  Measured Dependent Variable
	он но он но	