

MACROMOLECULES

Common Functional Groups

Hydroxyl	-OH	polar
Carboxyl	-COOH	polar
Carbonyl	-CO	polar
Amino	-NH ₂	polar
Phosphate	-PO ₃	polar
Methyl	-CH ₃	non-polar
Sulfhydryl	-SH	non-polar

Organic Compounds Overview



*more details underneath this block

Carbohydrates

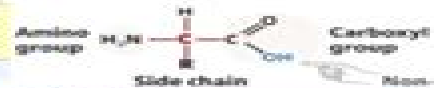
Monosaccharides	Disaccharides	Polysaccharides
- glucose	- sucrose	- "starch"
- fructose	- lactose	- cellulose
	- dextrose	- chitin
	- maltose	- amylose
	- galactose	- glycogen

*sugars can dissolve in H₂O because they are NON-POLAR!

Lipids

Triglycerides	Phospholipids	Steroids
-made of glycerol and fatty acids	-forms a bilayer (membranes)	-4 rings
-three "strands"	-polar, hydrophilic heads	-cholesterol
-no kink = saturated	-nonpolar, hydrophobic tails	-estrogen
-kink = unsaturated		-testosterone

Non-ionized form of amino acid



*R groups can be a mix of the following: unchanged, non-polar, polar, hydrophilic, hydrophobic

*amino acids are joined by a **PEPTIDE BOND**
*this results in a dehydration (taking H₂O out)

*protein = shape

Nucleotides

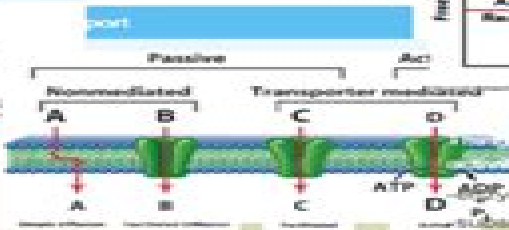


*amount of Pi (phosphate group) can change

TRANSPORT/ENZYMES

Osmosis

Hypertonic	Hypotonic	Isotonic
high solute, less water	low solute, high water	equilibrium
cell shriveled	cell swells (hippo)	cell is normal

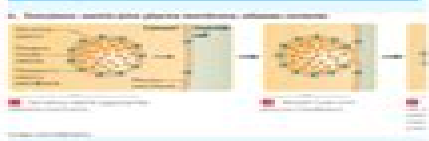


*more descriptions below

Endocytosis



Exocytosis



Enzymes

-bind to a substrate. These fit depending on the **SHAPE** of enzymes

-competitive inhibitors can block substrates by changing the shape of the enzyme

Enzymes are catalysts



*that factor enzyme

enzyme concentration
substrate concentration

-temperature
-pH

*enzymes have an optimal temp. and pH
*this depends on the specific enzyme!

*enzymes usually can go back to its original form, unless it **DENATURES**



Biology Cheat Sheets Guide

**Rene Fester Kratz, Donna Rae
Siegfried**



Biology Cheat Sheets Guide:

What is Life? A Guide to Biology Jay Phelan, 2014-12-19 From the front of the classroom to the top of the bestseller s list award winning educator Jay Phelan knows how to tell the story of how scientists investigate the big questions about life He is also a master at using biology as a springboard for developing the critical thinking skills and scientific literacy that are essential to students through college and throughout their lives

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Biology Essentials For Dummies Rene Fester Kratz, Donna Rae Siegfried, 2019-04-17 Biology Essentials For Dummies 9781119589587 was previously published as Biology Essentials For Dummies 9781118072677 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product Just the core concepts you need to score high in your biology course Biology Essentials For Dummies focuses on just the core concepts you need to succeed in an introductory biology course From identifying the structures and functions of plants and animals to grasping the crucial discoveries in evolutionary reproductive and ecological biology this easy to follow guide lets you skip the suffering and score high at exam time Get down to basics master the fundamentals from understanding what biologists study to how living things are classified The chemistry of life find out what you need to know about atoms elements molecules compounds acids bases and more Conquer and divide discover the ins and outs of asexual and sexual reproduction including cell division and DNA replication Jump into the gene pool grasp how proteins make traits happen and easily understand DNA transcription RNA processing translation and gene regulation

Loose-leaf Version for What is Life? A Guide to Biology with Physiology Jay Phelan, 2015-02-20 From the front of the classroom to the top of the bestseller s list award winning educator Jay Phelan knows how to tell the story of how scientists investigate the big questions about life He is also a master at using biology as a springboard for developing the critical thinking skills and scientific literacy that are essential to students through college and throughout their lives

Learning Elementary Biology 8 Solution Book (Year 2023-24) , 2024-01-02 *Learning*

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How To Recognize The Cast Of Female Characters The Worthy and Unworthy Wife Archetypes Over 30 Different Types Of Women To Recognize And much more **Everyone's Guide to Angels** Passio Faith,2015-05-05 Full of biblical insight amazing encounters and faith building stories This book a compilation of material from authors such as Terry Law Ron Phillips James Gool and Perry Stone presents the case for the existence of angels explores their purpose and shows you can engage their help and protection over you and your family **The Man's Guide to Women** John Gottman,Julie Schwartz Gottman, PhD,Douglas Abrams,Rachel Carlton Abrams, M.D.,2016-02-02 Results from world renowned relationship expert John Gottman s famous Love Lab have proven an incredible truth Men make or break relationships Based on 40 years of research The Man s Guide to Women unlocks the mystery of how to attract satisfy and succeed with a woman for a lifetime For the first time ever there is a science based answer to the age old question What do women really want in a man Dr Gottman author of the New York Times bestseller The Seven Principles for Making Marriage Work and his wife and collaborator clinical psychologist Julie Schwartz Gottman PhD have pored over the research along with bestselling coauthors Douglas Abrams and Rachel Carlton Abrams MD Together they have written this definitive guide for men providing answers on everything from how to approach a woman and build a connection with her to how to truly satisfy her in bed and know when the relationship is on the right track The Man s Guide to Women is a must have playbook for how to play and win the game of love

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