

Anatomy 2.1 abc (A&P Atomic Structure)	Anatomy 2.1 abc (A&P Atomic Structure) (cont)	Anatomy 2.3 abcd (Covalent Bonds) (cont)	Anatomy 2.3 abcd (Covalent Bonds) (cont)	Anatomy 2.3 abcd (Covalent Bonds) (cont)
2.1a MATTER, ELEMENTS, PERIODIC TABLE	Valence Shell= Exterior Electron Layer	Polarity depends on	Electronegativity	Hydrophilic=
Body matter has= Matter is present in liquid, gas, and solid	Octet Rule= 8 Valence Electrons= stability	Polar= pull	nonpolar= no pull	Dissolve in water
Atom composition= neutron proton electrons	Anatomy 2.2 ab (Ions)	2.3 c POLARITY & AMPHIPATHIC	non polar contains= non polar bonds polar contain polar bonds	Electrolytes
Amu= Neutron+Proton	2.1a IONS	Ampipathic Molecule= can have both poles		Non Polar=
Atomic Number= # of protons	Ions= positive or negative charge	2.3d ATTRACTION		Partially Dissolve=
Atomic Mass= (Atomic Weight)= Proton & Neutron	Cations= Loss of Electron Anion= gain of electron	Intermolecular attraction= weak attraction	Ex:= Hydrogen Bond	2.6 ab W
2.1b ISOTOPES	2.2b IONIC BONDS	van der Waals forces= non polar attraction	Occurs when momentary charge differs	2.6 a WA
Isotopes= same Proton & Electrons different Neutrons	Ionic Bonds= Positive+- Negative bond= Salt structure			Suspensions=
Average Atomic Mass= average isotopes	Ionic Compound Ex:= NaCl	Anatomy 2.4 abc Water Property		
Physical half-life= 50% of radioisotope to become stable	Anatomy 2.3 abcd (Covalent Bonds)	2.4 a STRUCTURE	H2O water molecule ability= form 4 hydrogen bonds with	Colloid=
Biological Half-Life= Half of medicine to be destroyed	2.3 a COVALENT MOLECULES	2.4b PROPERTIES	Phases= Lubricates Cushions Excretes Waste Transports	Solution=
2.1c STABILITY & OCTATE RULE	Covalent Bond= charge equilibrium	Water has= Cohesion Surface Tension	High= Specific Heat Heat of Vaporization	Emulsion
	Molecular Formula= # & type of element Structural Formula = Arrangement	Water has= Cohesion Surface Tension	High= Specific Heat Heat of Vaporization	2.6 b SO
	Isomers= Same Molecular formula different structure	2.4 c UNIVERSAL SOLVENT	Water= Solvent Stuff that gets dissolved =	Mass/Vol me =
	2.3 b COVALENT BONDS			Mass/Vol me Percent=
	Can have bonds up to: single double triple			



2.6 ab Water Mixtures (cont)				2.7 abcde (Macromolecules)				2.7 abcde (Macromolecules) (cont)			
Molarity=	Moles solute/L solution			27a GENERAL CHARACTERISTICS				Glucose->	Glycogeni	Glycogen	(Reverse
Molality=	Moles solute/kg Solvent			Organic	contain	Inorganic	every	sis->			with
Osmoles dependent=	dissolves in solution			Molecules=	carbon	molecules=	other				Glycogen
Osmolarity=	# particles in 1 litre solution			Hydrocarbons=	C-H		molecule				lysis)
Osmolality=	# of particles in 1 kilogram		of water	Polymers=	Monomers=	Identical chemical Structure		6-Carbon Sugars (Hexose)=	Galactose Fructose		
mole=	6.022X10 ²³			Dehydration =	forms	Hydration=	breakdown	5-Carbon Sugars (Pentose)=	Ribose	Deoxyribose	
Molecular Mass=	Add up AMU			2.7 LIPIDS				Disaccharides=	Sucrose	Lactose	Maltose
Anatomy 2.5 abc Acid/Base & pH Buffer				Types:	Phospholipids	Steroids	Eicosanoids	2.7 NUCLEIC ACIDS			
2.5 a WATER=NEUTRAL SOLVENT				Triglycerides				Single Ring= Pyrimidines =	Cytosine	Uracil	Thymine
H ₂ O+	H ₂ O->	H ₃ O ⁺	OH ⁻	Triglycerides =	energy storage	14-20 carbon long		Double Ring= Purines=	Adenine	Guanine	
		+		Fatty Acid:	Saturation= lacks double bond	Unsaturated =possesses double bond	polyunsaturated= double bond+	DNA & RNA	composed of Nucleotides	linked through Covalent Bonds	called phosphoester bonds
H ₃ O ⁺ =	Hydronium	OH ⁻ =	Hydroxide Ion	Phospholipid membrane=	Hydrophilic side	hydrophobic side		DNA possesses=	deoxyribose sugar	phosphate	1 of the nitrogenous bases
2.5 b ACIDS & BASES				Steroid Ring	4 rings consisting of hydrocarbons						
ACid=	Proton Donor	Base=	Proton ACceptor	Eicosanoids =	20 carbon fatty acids=	communicate with nervous system=	signaling molecules				
2.5 c pH BUFFERS				2.7 c CARBS!!!							
Neutral=	7										
Buffer =	Prevent pH Change										



2.7 abcde (Macromolecules) (cont)

200+ Amino Acids=	Protein	Protein+ Carb=	Glycoprotein
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2.8 Protein Structure

2.8 a AMINO ACIDS

Amino Acids groups= Nonpolar	Polar	Charged	special Function
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Nonpolar amino acids=	R group=	hydrogen or Hydrocarbons	groups with nonpolar amino acids
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polar amino acids	contain R groups	interacts with polar and	water molecules
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charged amino acids=	Negative have: Glutamate & Aspartate	Positive Charge Have: Histidine, Lysine, arginine	
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Special Function s:=	Proline, Cysteine, and Methionine
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2.8 SEQUENCE & PROTEIN CONFORMATION

4 Protein shapes= Primary	Secondary	Tertiary	Quaternary
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2.8 Protein Structure (cont)

Primary=	Linear Amino ACids
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Secondary=	Alpha Helix	Beta Sheet
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Tertiary Structure=	3- dimensional shape	repeating secondary structure
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quarternary structure=	2+ proteins
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Denature=	PH change	Temperature Change
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