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Unit 1				Unit 1 (cont)					
Transfer	Organic	Carbon	Carboh-	HyPchrootgeienrs	Onglandeic	The four	Carboh		
of	chemistry	can form	ydrates	at <b>an</b> es	coarctideslades	classes	ydrates		
electrons	is the study	large	inculde	armolecules	areolymers	of	contain		
from one	of	molecules	both	partialsijsting	co <b>made</b> roofs	macrom	carbon		
atom to	compounds	called	sugars	possítipælype-	thantucchendaliche	olecules	group a		
another	with	macrom-	and	anpotibles	ca <b>nboncane</b> lrs	inculde:	many		
atom	covalently	olecules,	polymers	on <b>felpleb</b> ar	hydrogen.	Carboh-	hydroxy		
forms	bonded	this	of	coivadeaat3D		ydrates,	groups		
ion.	carbon.	means	sugars.	molreapute		proteins,	that are		
		there can		will be		nucleic	compris		
		be more		attracted		acids,	of C, H		
		molecular		to an		and	and O		
		diversity		electr-		lipids			
		thanks to		onegative					
		carbon.		atom in					
				another					
				covalent					
				molecule					
				electrons					
				will not be					
				shared					
				equally,					
				this is					
				called a					
				hydrogen					
				bond.					
	ad yet			Changerad		0.00			

# С

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Unit 1 (cont	:)			Unit 1 (cont)			Unit 1 (cont)				
The	Carbon	Along with	Monosa-	Walteershape	e Ca <b>Nboorl</b> eic	Polymers	The	TVWeater is	HNy.cotleics	Monomers	Monosa
hydrogen	can	carbon,	ccharides	mofescules	caracids	are chain-	most	nacprodarrer	aandcidass	are the	ccharid
bonds	form	nitrogen is	are	mproetein	forman be	like	common	afnalecule	ancensist of	repeating	can be
between	single,	an	simple	lotletermine	scoverithet	macrom-	monosa	potrateetuo is	olngace ic	units that	building
water	double,	important	sugars	its functior	n bon <b>DoNs</b> Aor	olecules	ccharide	dataleed and	npates;uales	make up	blocks f
molecules	or triple	element for	that have		witIRNA	of similar	is	aumienqual	onithyog-	polymers.	amino
make it	covalent	building	molecular		other	or	glucose,	aschida,rithogey	concaisting		acids, c
more	bonds.	proteins	formulas		carbons.	identical	which is	coonfntain an	obfase, a		as
structured		and nucleic	with			repeating	used by	ærheictrons	hiiyderogen		monom
than most		acids.	multiple			units that	many	gi <b>rcsuiq</b> be at	anadbon		for di- a
liquids,		Phosphorus	units of			are	cells for	carboxyl	sangan,.		polysa-
this		is important	CH2O			covalently	nutrients	group, a	and		ccharid
allows for		for building				bonded	and fuel,	central	phosphate		
things		nucleic				together.	it is also	carbon	group(s).		
such as		acids and					used in	atom, and			
surface		some lipids.					cellular	an r chain,			
tension.							respir-	the r chain			
							ation	can			
								change			
								depending			
								on what			
								protein			
								the amino			
								acid is.			
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RNA is a

stranded polynu-

cleotide

single

			Unit 1 (cont)		Unit 1 (cont)	
	Disacc-	The intera	- Pvrimi-		In a water	Each end of a
-			· · · · · · · · · · · · · · · · · · ·			polypeptide is
						unique, one
						end is a free
					1	amino acid
0			•		•	and one is a
					,,,	free carboxyl
	•				1	group
						9.040
water.						
		a protoin	•			
			•			
			atoms.			
	-					
	reactions					
	Dehydr- ation reactions are the bonding of two molecules with the loss of water.	Dehydr-Disacc-ationharidesreactionsare twoare themonosa-bondingcch-of twoaridesmoleculesjoined bowith thecovalentloss ofbonds,	Dehydr- ationDisacc- haridesThe intera ction of reactionsare the are themonosa- monosa-chainsbondingcch- arideswith each of twoof twoaridesother is moleculesmoleculesjoined bo bonds,whatwith the loss ofcovalent bonds,determines the shape arideswater.polysa- aridesand cch- aridesa protein are a polymerswith many monosa- cch- aridescch- aridesa function of aridesarides ipoined by dehydr- 	Dehydr- ationDisacc- baridesThe intera- ction of sidePyrimi- dinesationharidesction of sidedinesreactionsare twosidehaveare themonosa- chainschainsonebondingcch-with eachringof twoaridesother iswith 6moleculesjoined bowhatatomswith thecovalentdetermineswhileloss ofbonds,the shapepurineswater.polysa-andhavearidesa proteinringaridesa proteinringaridesa polymerssith 6monosa-ringringis the polymerssith 6is cch-with 6monosa-ringis cch-sith 6monosa-ringis cch-sith 6is cch-sith 6is cch-sith 6is cch-sith 6is cch-sith 6is cch-sith 6is cch-sith 5is cch-sith 5is ch-with 5is cch-with 5is ch-sith 5 <t< td=""><td>Dehydr- ationDisacc- the intera- ction ofPyrimi- dinesationharidesction ofdinesreactionsare twosidehaveare themonosa- thischainsonebondingcch-with eachringof twoaridesother iswith 6moleculesjoined bowhatatomswith thecovalentdetermineswilileloss ofbonds,the shapepurineswater.polysa-andhavearidesa proteinringaridesa proteinringare a:stomswith:bondedmonosa-:ringmonosa-:stomswith:to onemonosa-:ringaridesatoms.igined byith 5aridesatoms.igined byatoms.igined byiatoms.iden/dr-iatoms.</td><td>Dehydr- ationDisacc- haridesThe intera- clinesPyrimi- dinesIn a water molecule, water is partially positive and oxygen is partially positive and oxygen is partially positive and oxygen is partially molecules joined bowhat wateratoms watermolecule, water is partially positive and oxygen is partially negative.with waterwith each atomsring other is with 6oxygen is partially negative.with the covalentother is determineswhilenegative.loss of water.bonds, polysa- andhavenegative.ics of aridesfunction of atomsonenegative.are a with withatomsingingare a monosa-gondedmanyto onemonosa- cch-with 5atoms.ingindes monosa-ringatoms.with 5arides aridesatoms.ipined by dehydr- ationatoms.ingipined by dehydr-atoms.ingipined by dehydr-itionition</td></t<>	Dehydr- ationDisacc- the intera- ction ofPyrimi- dinesationharidesction ofdinesreactionsare twosidehaveare themonosa- thischainsonebondingcch-with eachringof twoaridesother iswith 6moleculesjoined bowhatatomswith thecovalentdetermineswilileloss ofbonds,the shapepurineswater.polysa-andhavearidesa proteinringaridesa proteinringare a:stomswith:bondedmonosa-:ringmonosa-:stomswith:to onemonosa-:ringaridesatoms.igined byith 5aridesatoms.igined byatoms.igined byiatoms.iden/dr-iatoms.	Dehydr- ationDisacc- haridesThe intera- clinesPyrimi- dinesIn a water molecule, water is partially positive and oxygen is partially positive and oxygen is partially positive and oxygen is partially molecules joined bowhat wateratoms watermolecule, water is partially positive and oxygen is partially negative.with waterwith each atomsring other is with 6oxygen is partially negative.with the covalentother is determineswhilenegative.loss of water.bonds, polysa- andhavenegative.ics of aridesfunction of atomsonenegative.are a with withatomsingingare a monosa-gondedmanyto onemonosa- cch-with 5atoms.ingindes monosa-ringatoms.with 5arides aridesatoms.ipined by dehydr- ationatoms.ingipined by dehydr-atoms.ingipined by dehydr-itionition

The	Hydrolysis	Plant	Many	DNA
properties of	is the	and	AA are	consists
water	breaking	animal	linked	of two
include:	of the	cells use	with	polynu-
Adhesion,	bonds in a	polysa-	peptide	cle-
the clinging	polymer	cch-	bonds,	otides
ofd one	using	arides	every	in a
molecule to	water.	as	polype-	double
a different		stored	ptide	helix.
molecule,		energy,	has a	
which allows		they are	unique	
water to stick		also	link of	
to the wall of		used for	amino	
xylem and		structure	acids.	
resist gravity,				
Capillary				
action, The				
upward				
movement of				
water due to				
the forces of				
cohesion,				
adhesion,				
and surface				
tension. This				
phenomenon				
occurs when				
adhesion is				
greater than				
cohesion.				
Temperature				
Control,				
water has a				
high specific				
heat.				
meaning it				
can resist				
changes in				
temperature.				
Evaporative				
cooling,				
water cools				
things when				
evaporating.				
Floating Ice,				
as water				
solidifies it				
becomes				
less dense				
because of				
the crysta-				
lline				
structure				
formed by				
the hydrogen				
bonds.				



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Unit 3				Unit 3 (cont	:)			Unit 3 (con	t)		
Metabolism	Energy	Laws	The free	Célletebolic	Kinetic	The 1st	Exergoni	cTh <b>Ande</b> nosi	nehermal	the 2nd	Enderg
is all of the	is the	of	energy	p <b>eprádhw</b> vays	energy is	law of	reactions	aretripoloo-	energy is	law of	reactio
chemical	ability	thermo	change of	thære a	the energy	thermo-	are	typsepshante i	s energy	thermo-	are
reactions	to do	dyn-	reactions	ki <b>selsies</b> fof	associated	dynamics	reations	metabolic	associated	dynamics	reactio
in an	work	amics	determines	w <b>ch</b> ęmical	w/ motion.	is that	that	pa <b>tholæyc</b> ,ul	e w/ the	is that	that ab
organism.		are the	whether or	meetations		energy	release	cattalatolic	movement	energy	energy
		study	not the	icath,at either		cannot be	energy	an <b>d</b> rganisr	nsof atoms	transf-	
		of	reaction	tr <b>ansip</b> ort,		created		an <b>alse</b> lias a	and	ormation	
		energy	occurs	ancomplex		nor		Casabootie o	of molecules.	increases	
		transf-	sponta-	chrenorlieocaliles		destroyed		pa <b>terweagş</b> t	0	the	
		orm-	niously	or break		but it can		areperform		entropy	
		ations		down		be transf-		pathonatys		of the	
		in		complex		erred or		that		universe.	
		matter		molecules		transf-		release			
		is				ormed		energy			
		called						while			
		thermo						anabolic			
		dyn-						pathways			
		amics						consume			
								energy			

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#### Unit 3 (cont)

Potential	enzymes can be inhibited in
energy is	order to stop the production
stored	of too many products.
energy	

#### Unit 3 (cont)

chemical energy is potential energy available for release in a chemical reaction

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