Name
Name

Chemistry of Life

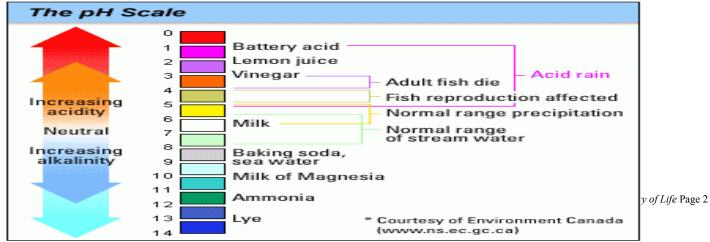
Matter anything that has is a	and takes up made of matter)	
Atoms – the p considered a certain kind of things ar	matter; all and	ill be	
Atoms have three componer 1		n nucleus	
Elements a substance that is	made of only	kind of	
	N S Ca Fe Mg		of the mass of a hur
** all living things	_,,,	, make up more than,	of the mass of a num _ make up
Compounds – matter that is ma Compounds are made by a atoms in the compound	de of more thantoms sharing or taking	kind of from the other	
Bonding			
• Atoms	with other atoms when	conditions are right to become	more
• This means their	energy level :	isfrom other atoms (,
• 10 become more sta Covalent Bonds	one they share or take	rrom other atoms (_).
	electrons to bond		
Ionic Bonds			
When atoms	or	electrons to bond with another	er atom.
Chemical Reactions			
	occur when bonds between	atoms are or	
Chemical reactions of	occur and	atoms areor inside an organism are referred to as the	·
All of the chemical r	eactions that occur within a	un organism are referred to as the	at organisms
	cacaono mui occur within d	ar organism are referred to as the	at organismis

Name			_

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Inorganic (Non-living) Compounds

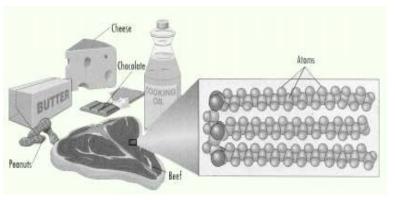
Water	() – each molecule is made of two atoms and one
	atom
Uniqu	ne Properties of Water
Omqu	Water molecules cling to each other as a result ofbonds.
•	This attraction of water molecules to each other is called
•	is a film-like surface on water caused by
	cohesion.
	o Importance:
•	moves water and all of the things that are dissolved in it around.
	o Importance:
•	Only substance found in all three states,,
•	— Water changing from a liquid to a gas.
	o Importance:
_	High index water can absorb a let of best before it begins to get bet
•	High index water can absorb a lot of heat before it begins to get hot. o Importance:
	o importance.
•	Water is called the " " because it dissolves more substances than any oth-liquid. This means that wherever water goes, either through the ground or through our bodies, it takes
	along valuable chemicals, minerals, and nutrients.
	o – a mixture in which one or more substances () are distributed evenly in another substance ().
	evenly in another substance ().
	 - a combination of substances in which the individual components their own properties.
	The pH Scale
	o pH – is a measure of how or a solution is.
	Substances with a pH below 7 are
	Substances with a pH above 7 are
	depend on a certain pH.
	The pH Scale
	p coure



			Name		, , , , , , , , , , , , , , , , , , , ,
•	important in nature?				
•					
Organic Compoi	unds		4		
Carbohydrates -	– provide		ALC:		
	charides – simple n C ₆ H ₁₂ O ₆		1	accocacoop	CHICH T
	,	_		Stands resilienda	SH 9H
and ■ Disacchar	rides – double		11 4	IV Each line in the models of a sharch molecule represents a chemical	H
contain	n two and	_		bond between alone.	Glacosa m ey
	and				- sarban atam : hydrogen atam - oxygen atam
Polysacci	harıdes – complex		a. Statch is a carbohy drate macromolecule that you sot every firms	- AND	Each lette
	ofof		you eat vegetables.	96.0	nodel af a ç nolecule rep an aform
	·	and		3	
			Structure of carbohydrat	les	
n n :	1 11 1				
Proteins – Provi ■ Make	de celland		-		
■ Made	•				
_ 1,1440				0 /04 04 0	
■ Amin	o Acids – building		-	A. O. O. O.	3
0	different kind	ds – all have the	e	3 3 3	
sa	ame elements but in differe	ent amounts		3 3 3	
= D ()	. 1			\$ 8 3	
■ Protei	ins – chains of			- W.	
Used to II	make, etc.				
,	, c.c.				
Enzymes A	An enzyme is a	that cha	nges the rate of a	reaction.	
They are	involved in nearly all	p	rocesses.		

Name				

Lipids	molecules	
	used to store	
	Make up cell	
	Made of long	of H &
	C followed by COOH	
	Do not in	
	Lipids have less	than
	carbohydrates	
	Examples of Lipids are:	



Nucleic Acids – store _______ that controls ______ activities ______ Made of a _______, a _______, a ______, and a ______.

Examples of Nucleic Acids are: _______ and ______ of DNA

