Atoms:	
Nucleus:	
Electron cloud or shell includes:	
Subatomic Particles	
1.	
2.	
3.	
Atomic Number:	
Same as:	
Example:	
Electron Cloud or Shell	
Different in an atom	
Each electron has its own()
Each shell:	
The outside shell of e ⁻ are called	
Valence e determine:	
How do they bond?	
Examples:	
Kinds of Bonds	
1.	
a.	
b.	
c. Draw Example	7
2.	
a.	$(H \ C \ H)$
b.	
c. Draw Example	
When an atom gains or lose electrons they become:	(H)
3.	● Electron from hydrogen
a.	• Electron from carbon
b.	Miles I are of the collection
c. Example:	What type of bond is this?
Acids and Bases	
In water, ionic compounds:	
Example:	
Substances that release ions in water are:	
Acids:	
Example:	(Na) + (Ci) + (Ci)
Bases:	
Example:	A sodium A chloride A sodium A chloride atom atom cation anion
pH scale:	atom atom cation anion Na + CI Na ⁺ + CI ⁻
acids:	Copyright total by Julin Willier and Sons, Inc. All rights reserved.
neutral:	What type of bond is this?
bases:	

Salts:

	Hydrophilic:
	Example:
	Hydrophobic:
Buffers	
Electrol	ytes:
	What do they do?
	How do you lose them? How can you replace them?
	Some examples?
Inorgan	ic Substances:
	Found in cells
	1.
	2.
	3.
	4.
Organic	: Substances ()
	=
	Polymer = repeated, linked units
	Large polymers –
	1.
	2.
	3.
	4.
1. Carbo	phydrates:
	Monomer:
	Functions:
	Examples:
2. Lipid	
	Monomer:
	Functions:
	Examples:
3. Prote	
	Monomer:
	Functions:
	Examples:
	Enzymes:
	Biological catalysts:
	1. 2.
	3.
	Unchanged so:
	Effects of Temperature and pH:

	Activation Energy:
	Enzymes do what to activation energy?
4. Nucleic Acid	s:
Monor	ner:
Functio	ons:
Examp	les: