Chemistry	of	Life	Review:
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NAME

The topics or questions listed on this review will help you to know what will be on your test. You should study and be familiar with the following:

1. Atoms/Elements:

a. Parts of the atom (fill in the blanks with the appropriate information)

Parts of the atom:	Protons	Neutrons	Electrons
Charge			
Position in the atom			
Number of them in			
atom			

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c. Explain the difference in covalent vs. ionic bonds and give an example of a compound that is held together by each type of bond:

2. Properties of Water:

Water is a polar molecule. What does this mean?

You need to know these properties of water and how they make life on earth possible: (explain each one)

- Cohesion
- Adhesion
- High heat capacity
- Capillary action
- Universal solvent
- Density

3. Macromolecules:

Using your foldable, fill in the table below with the essential information on macromolecules.

Macromolecule	Function in the body	Elements made from	MONOMERS	Examples
Carbohydrates				
Lipids				
Proteins				
Nucleic Acids				

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4.	Explain the different typ	ies of carbonydrates	 monosaccharides 	, aisacchariaes, i	polysaccharides

5. Enzymes :

- a. What is an enzyme?
- **b.** Explain how enzymes work OR draw a picture of a chemical reaction where an enzyme is either building or breaking down a molecule.