

**Chemistry of Life Review:****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:          |  |  |  |
| <b>Charge</b>               |  |  |  |
| <b>Position in the atom</b> |  |  |  |

b. The 4 most abundant elements in living things are:

**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
- Universal solvent
- Density

### 3. Macromolecules:

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

| Macromolecule | Function in the body | Examples |
|---------------|----------------------|----------|
| Carbohydrates |                      |          |
| Lipids        |                      |          |
| Proteins      |                      |          |
| Nucleic Acids |                      |          |

### 4. Enzymes :

a. What is an enzyme?