

**Fill in the blanks.**

The four general types of biological molecules are \_\_\_carbohydrates\_\_\_, \_\_\_lipids\_\_\_, \_\_\_proteins\_\_\_, and \_\_\_nucleic acids\_\_\_.

Biomolecules are synthesized by the process of \_\_\_dehydration\_\_\_ \_\_\_synthesis\_\_\_ and broken apart by the process of \_\_\_hydrolysis\_\_\_.

Carbohydrates are composed of \_\_\_C\_\_\_, \_\_\_H\_\_\_, and \_\_\_O\_\_\_ . Carbohydrates are soluble in water, so carbohydrates are \_\_\_hydrophilic\_\_\_.

One sugar molecule is called a \_\_\_monosaccharide\_\_\_.

Two sugar molecules linked by a covalent bond is called a \_\_\_disaccharide\_\_\_.

More than two sugar molecules linked by covalent bonds are called \_\_\_polysaccharide\_\_\_.

All lipids are insoluble in water, so lipids are called \_\_\_hydrophobic\_\_\_ . The three classes of lipids are \_\_\_fats/oils\_\_\_, \_\_\_phospholipids\_\_\_, and \_\_\_steroids\_\_\_.

A protein is composed of monomers termed \_\_\_amino acids\_\_\_ . Each of these monomers are composed of 4 parts: \_\_\_amino group\_\_\_, \_\_\_carboxyl group\_\_\_, \_\_\_variable group or side chain\_\_\_ and \_\_\_hydrogen atom\_\_\_.

Nucleic acids are composed of monomers termed \_\_\_nucleotides\_\_\_ . Each monomer has 3 parts: \_\_\_5 carbon sugar\_\_\_, \_\_\_phosphate group\_\_\_, and \_\_\_nitrogenous base\_\_\_.