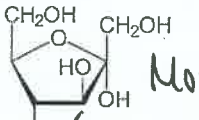
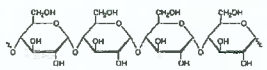
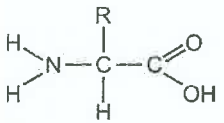
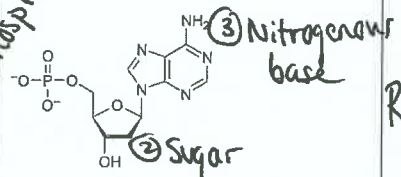
Name:_____ Per:____ Date:_____

Biomolecule Organizer

H. BIO

Macromolecule	Elements Present	Monomer(s) Name and Shape	Polymer(s) Name(s) and Shape	Functions
Carbohydrates	Carbon(C) Hydrogen(H) Oxygen (O)	 Monosaccharide (ex: glucose, fructose)	 Polysaccharide (ex: starch(amylase), Cellulose)	• Energy (starch, glycogen) • Support (Cellulose)
Lipids	C H O *Phosphorus (Phospholipids)	Hint: There are TWO common building blocks in lipids • Glycerol • Fatty Acids	Name 2 Common Lipids Polymers: • Triglycerides • Phospholipids	• Long term energy storage • Insulation • Cushioning • Cell Membranes
Proteins	C H O Nitrogen(N) *Sometimes Sulfur	 - Amino Acids (20)	 List the levels of folding: • primary, secondary, tertiary, quaternary	• Communication (Hormones) • Storage • Reactions (Enzymes) • Support (Collagen) • Defense (antibodies) • Transport (in cell membranes)
Nucleic Acids	C H O N P	 ① Phosphate ③ Nitrogenous base ② Sugar ↑ Nucleotide (3 parts)	RNA DNA 	• Genetic Instructions