

Macromolecules

Organic Molecules	Carbohydrates	Lipids	Proteins	Nucleic Acids
Monomer	Monosaccharides	Glycerol + 3 fatty acids	Amino Acids	NUCLEOTIDE: phosphate group; nitrogen base and sugar: ribose or deoxyribose
Polymer	Polysaccharide	DOES NOT MAKE POLYMERS	Polypeptide	DNA or RNA
Function	Energy-stored energy (short term) glycogen and starch structure- cellulose and chitin	Stored energy (long term); insulation and protection	Enzymes, structure, movement, transportation, communication, defense	Heredity or code for protein
Elements	C,H, O Twice as much H as O	C, H, O Less O than H (contains double bonds)	C, H, O, and N	C, H, O, N, and P
Examples	Glucose, chitin (in insects), cellulose (in plants), glycogen (in animals). Sugar, bread, fruit	Fats, oils, waxes, steroids	Hair, muscles, hemoglobin (in blood), antibodies	DNA and RNA
Pictures				