

Macromolecules Study Guide

Macromolecules Study Guide Answer Key

Carbohydrates

Function- provide quick energy for cells

Monomers- monosaccharides

Polymers- disaccharides, polysaccharides

Examples- glucose, cellulose, lactose

Making and Breaking Polymers

Dehydration synthesis- Builds polymers from monomers by removing the equivalent of a water molecule.
*synthesis = to make
Hydrolysis- Breaking polymers by adding water
*lysis = break

Proteins

Function- structure, speed of chemical reactions, transport materials

Monomers- amino acids

Polymers- polypeptides, held together by peptide bonds

Examples- enzymes, protein pumps, keratin, hemoglobin

Lipids

Function- store energy long term

Monomers- glycerol and fatty acids

Polymers- triglycerides

Examples- fats, oils, waxes, steroids, cholesterol

Nucleic acids

Function- store and transmit genetic information

Monomers- nucleotides

Polymers- nucleic acids

Examples- DNA, RNA

Levels of Protein Structure

Primary- order of amino acids

Secondary- alpha helix or beta pleated sheet

Tertiary- 3D folded protein

Quaternary- more than one polypeptide chain

Macromolecule Study Guide

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