

biochemistry review

AP Biology

monomers

building blocks of polymers

- carbohydrates: monosaccharides
- proteins: amino acids
- nucleic acids: nucleotides

polymers

long chains of repeating units

dehydration synthesis

removes water to form bonds

$\text{A-OH} + \text{HO-B} \rightarrow \text{A-O-B} + \text{H}_2\text{O}$

hydrogen bonds

weak interactions between polar molecules

C

H

O

P

S

water's special properties

AP Biology

vocab

- hydrophilic: water-loving
- hydrophobic: water-fearing

hydrogen bonds

cohesion: water molecules sticking to each other

adhesion: water molecules sticking to other surfaces

properties of water

- high specific heat: absorbs heat without changing temperature much
- high heat of vaporization: requires a lot of energy to evaporate
- density of ice: less than liquid water, so it floats
- universal solvent: dissolves many substances

test tube

the structure and function of large biological molecules

AP Biology

carbohydrates

energy storage and structural support

polysaccharides: starch, glycogen, cellulose

proteins

enzymes, structural proteins, transport proteins

primary structure: sequence of amino acids

secondary structure: alpha helix, beta sheet

tertiary structure: 3D shape

quaternary structure: assembly of multiple polypeptides

nucleic acids

genetic information storage and transfer

DNA: double helix

RNA: single strand

cell membrane

Carbon - the molecular diversity of life

AP Biology

vocab

- isomers: same molecular formula, different structures
- functional groups: groups of atoms that determine chemical behavior

carbon atom

four valence electrons

functional groups

- hydroxyl: $-\text{OH}$
- carboxyl: $-\text{COOH}$
- amino: $-\text{NH}_2$
- phosphate: $-\text{PO}_4$
- sulfhydryl: $-\text{SH}$

carbon atom

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