

Structure of H_2O
hydrogen bonding
Dissociation of H_2O



unit one guide

biological molecules
proteins
nucleic acids

H_2O properties: cohesion, adhesion, surface tension, high specific heat, high heat of vaporization, excellent solvent, pH buffer, temperature stability

hydrogen bonds require lots of energy to change state of matter

COHESION → when H_2O bonds to it produces hydrogen and hydroxyl ions, H_2O dissociates, pH → more hydrogen
Adhesion → attracted to some surface
Surface Tension → hydrogen bonds
High specific heat → surface of the liquid doesn't heat

PHS bond when bond → water expands due to hydrogen bonding, molecules move slowly

C
Carbon

H
Hydrogen

N
Nitrogen

O
Oxygen

P
Phosphorus

S
Sulfur

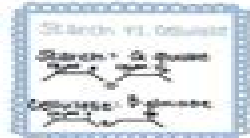
more hydrogen bonds
C → build biological molecules, cell formation
N → build proteins, nucleic acids
P → build nucleic acids + lipids
→ make up 98% of organisms

Carbohydrates ↓ monosaccharides C, H, O	Lipids ↓ fats, oils C, H, O	Nucleic acids ↓ monomers C, H, N, O, P	Proteins ↓ amino acids C, H, N, O
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Condensation synthesis → if the removal of an H_2O molecule to bond monomers. Hydrolysis is the addition of a water molecule to cleave a bond between monomers (breaks protein)

Nucleic acid Structure:

* first carbon sugar (deoxyribose/ribose), phosphate, nitrogenous base (G, C, A, T), exact shape of strand



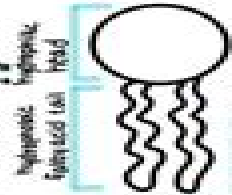
Proteins: Specific order of amino acids. Primary structure → sequence of amino acids. Secondary structure → local folding. Tertiary structure → overall 3D shape. Quaternary structure → assembly of multiple polypeptide chains.

PROTEINS

* amino acids bond via a peptide bond (covalent) through dehydration synthesis
* 1 group change can cause a hydrophobic protein to lose the place of a hydrophilic protein

membranes

* made up of phospholipids
* create selectively permeable barrier
* contain phospholipids, cholesterol, and proteins



LIPIDS

Phospholipid macromolecules
* differences in saturation determine structure and function
* fats, steroids, phospholipids
* Saturated → no double bonds
* Unsaturated → has double bonds
* Lipids: triglycerides, cholesterol, waxes, steroids, phospholipids
* Steroids: 4 rings, carbon rings, cholesterol, maintaining flexibility, embedded in cell membranes, later signal due to phospholipid and fatty acid

PROTEIN STRUCTURE

Primary: Sequence of amino acids, specific order determines structure
Secondary: local folding of chain into alpha helix and beta pleated sheet
Tertiary: 3D shape, hydrogen bonds, disulfide bond, ionic bond, hydrophobic int.
Quaternary: interactions between multiple polypeptide chains

+ FUNCTION

* Enzymes → speeds up reaction rates in the cell
* Cell structure → part of the cellular membrane
* Communication between cells

DENATURATION:

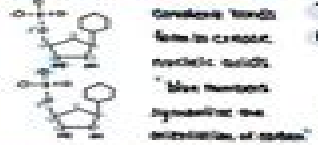
* The protein starts to lose its shape/structure when bonds break
* Temperature change
* pH of surrounding area
* Salt concentration

NH_2 = Amino
 $COOH$ = Carboxyl

NUCLEIC ACIDS

* add new nucleotides to the 3' end
* two nitrogenous bases: purine + pyrimidine
* purine is single ring, pyrimidine is double
* Antiparallel double helix
* 5' on phosphate end, 3' on hydroxyl end
* both back and forth have nitrogenous bases perpendicular to sugar-phosphate backbone

DEHYDRATION SYNTHESIS



ANTIPARALLEL



Chaperonins:

* protein molecules that assist protein folding

ALDOSE VS

* contains aldehyde functional group

KETOSE

* contains ketone functional group
 $C=O$



ALPHA VS

* all monomers are in the same orientation

BETA

* Every glucose monomer is upside down from its neighbor



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