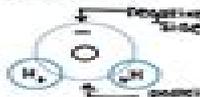


Structure of H₂O
hydrogen bonding
Denser at 0°C



unit one guide

Biological molecules
proteins
nucleic acids

H₂O provides cushion, adhesion, surface tension, high specific heat, high heat of vaporization, variable density, greater density when frozen.

THIS GENE: when ions → water expands due to hydrogen bonding, molecules next to each other.

hydrogen bonds require lots of energy to change state of matter

CONDENSATION → when two molecules → products hydrogen and hydroxyl ions, releases pH → more hydrogen

DEHIDRATATION → attracted to same
SOLUTION → attracted to other
HYDROLYSIS → breaking down
HYDROLYSIS → breaking down
HYDROLYSIS → breaking down

C	H	N	O	P	S
Carbon	Hydrogen	Nitrogen	Oxygen	Phosphorus	Sulfur

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

Carbohydrates ↓ C, H, O	Lipids ↓ C, H, O	Nucleic acids ↓ C, H, N, O, P	Proteins ↓ C, H, N, O
-------------------------------	------------------------	-------------------------------------	-----------------------------

Condensation synthesis is the removal of an H₂O molecule to bond monomers. Hydrolysis is the addition of a water molecule to break a bond between monomers (break protein).

Nucleic acid structure:

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



Starch vs Cellulose
Starch → α glucose
Cellulose → β glucose

Proteins:

Specific order of amino acids
Primary structure

* R group interactions determine structure + function



PROTEINS

* amino acids bond via a peptide bond (covalent) through dehydration synthesis
* R group changes 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

* Cells, sterols, phospholipids
* Saturated → no double bonds
* Unsaturated → has double bonds
* Lipids, steroids, waxes, most of the membrane



Amino Acids:

have directionality
* linear chains, connected by covalent bonds
* amino end and carboxyl end

DEHYDRATION SYNTHESIS



covalent bonds form to create nucleic acids
* the number specifies the structure of water

PROTEIN STRUCTURE

* Primary: sequence of amino acids, specific order determine protein shape
* Secondary: how folding of chain into alpha helix and beta sheet occurs
* Tertiary: 3-D shape, hydrogen bonds, disulfide bond, ionic bonds, hydrophobic interactions
* 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

NH₂ = Amino
COOH = Carboxyl

NUCLEIC ACIDS

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

ANTIPARALLEL



Chaperones:

* protein molecules that assist protein folding

ALDOSE VS KETOSE

* contains aldehyde functional group

ALPHA VS BETA

* contains ketone functional group



ALPHA VS BETA

* all monomers are in the same orientation



ALPHA VS BETA

* Every glucose monomer is upside down from its neighbor

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Arturo Cuomo



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