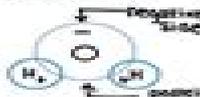


Structure of H₂O
hydrogen bonding
Denser at 4°C



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 produce hydrogen and hydroxyl ions, releases H₂O

Hydroxyl → attracted to same surface
Hydrogen bond → attraction between surfaces of two water molecules

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

more hydrogen bonds → C⁻ hold together molecules, cell formation
N⁺ hold positive, amino acids
P⁻ hold nucleic acid + 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, S
-------------------------------	------------------------	-------------------------------------	--------------------------------

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 (amino acids, nucleic acids).

Nucleic acid structure:

* One carbon sugar (deoxyribose/ribose), phosphate, nitrogenous base (A, T, C, G), exact copies of strands



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 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
* Cells, sterols, phospholipids
* Saturated → no double bonds
* Unsaturated → has double bonds
* Lipids: triglycerides, cholesterol, most of the membrane



Amino Acids:

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

DEHYDRATION SYNTHESIS



Chaperones:

* protein molecules that assist protein folding

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 link, 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
* two nitrogenous bases: purine + pyrimidine
* pyrimidine is single ringed, 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



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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Jan Sapp



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Biomacromolecules Mohamed Elzagheid,2024-12-30 The second edition of the Macromolecular Chemistry broadens into two areas biomacromolecules Volume 1 and polymers Volume 2 Biomacromolecules covers carbohydrates lipids proteins nucleic acids their classifications and properties The first chapter looks at the structural formulas and cyclic forms of monosaccharides as well as their synthesis and breakdown Cyclization enolization isomerization tautomerization mutarotation and epimerization are all briefly described Examples of disaccharides and polysaccharides are also presented The second chapter covers triglycerides steroids vitamins and their constituents The third chapter examines the primary structure of proteins including amino acid properties peptide bond formation and peptide synthesis It also addresses secondary tertiary and quaternary structures The book concludes with a chapter on nucleic acids which covers the chemistry of nucleosides and oligonucleotides as well as topics such as genetic code DNA secret code Polymerase Chain Reaction and DNA fingerprinting

Game of Fear: A gripping psychological thriller Gledé Browne Kabongo,2016-02-24 Sometimes good girls do very bad things Academic overachiever and popular good girl Abbie Cooper is used to being in control and strives to keep it that way As senior year at her elite New England private school kicks off she s focused on one goal getting into the Ivy League But even good girls have dark secrets One morning Abbie discovers a cryptic note in her locker I know what you did hypocrite Justice will be served The Avenger Then a photo arrives in the mail It captures in great detail the explosive secret she s kept hidden from everyone the shocking blunder that could get her expelled from Saint Matthews Academy and keep her out of the Ivy League for good Determined to protect her future and the people she loves Abbie is drawn into a diabolical game of blackmail cyber spying and deception For 50 000 the mystery girl known as The Avenger assures Abbie that her secret will remain safe There s only one problem The Avenger may not exist at all So who s stalking Abbie with anonymous text messages that disappear after they ve been read Who s out to ruin her and why To uncover the horrifying truth Abbie must play the game all the way to its stunning conclusion Provided by publisher

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Fulder,1980 **Latin Notes** ,1926 *New Technical Books* ,1929 Ladies in the Laboratory? American and British Women in Science, 1800-1900 Mary R.S. Creese,2000-01-01 A systematic survey and comparison of the work of 19th century American and British women in scientific research this book covers the two countries in which women of the period were most active in scientific work and examines all the fields in which they were engaged The field by field examination brings out patterns and concentrations in women s research in both countries and allows a systematic comparison of the two national groups Through this comparison new insights are provided into how the national patterns developed and what they meant in terms of both the process of women s entry into research and the contributions they made there Ladies in the Laboratory features a specialized bibliography of nineteenth century research journal publications by women created from the London Royal Society s Catalogue of Scientific Papers 1800 1900 In addition 23 illustrations present in condensed form information about American and British women s scientific publications throughout the nineteenth century This well organized blend of individual life stories and quantitative information presents a great deal of new data and field by field analysis its broad and methodical coverage will make it a basic work for everyone interested in the story of women s participation in nineteenth century science The Ohio Journal of Science ,1921 Includes book reviews and abstracts

Biological Science Biological Sciences Curriculum Study,1963 *International Index to Periodicals* ,1924 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts *The Literary World* ,1891 **Biological & Agricultural Index** ,1928 **Reader's Guide to Periodical Literature Supplement** ,1923

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web apr 24 2023 she is married to jack brooksbank eugenie married her longtime boyfriend jack brooksbank at st george s chapel the same venue as harry and meghan s wedding on october 12 2018 the couple

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web jun 6 2023 eugenie was born on march 23 1990 the princess parents announced their separation when she was two and divorced in 1996 sharing joint custody of eugenie and her older sister beatrice