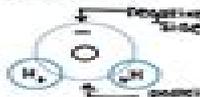


Structure of H<sub>2</sub>O  
hydrogen bonding  
Denser at 4°C



# unit one guide

Biological molecules  
proteins  
nucleic acids

H<sub>2</sub>O provides cushion, adhesion, surface tension, high specific heat, high heat of vaporization, excellent solvent, stable chemistry, low compressibility

hydrogen bonds require lots of energy to change state of matter

CONDENSATION → when two molecules combine, produces hydrogen and hydroxyl ions, releases H<sub>2</sub>O

Hydroxyl → attracted to same surface  
Hydrogen bond → attraction between hydrogen atoms of one water molecule

<b>C</b>	<b>H</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>S</b>
Carbon	Hydrogen	Nitrogen	Oxygen	Phosphorus	Sulfur

more hydrogen bonds → C<sup>-</sup> hold together molecules, cell formation  
N<sup>+</sup> hold positive, amino acids  
P<sup>-</sup> hold 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
-------------------------------	------------------------	-------------------------------------	-----------------------------

Dehydration synthesis → the removal of an H<sub>2</sub>O molecule to bond monomers together to create a bond between monomers (condensation)  
**Nucleic acid structure:**  
• 5' carbon sugar (deoxyribose/ribose), phosphate, nitrogen base (A, T, C, G), 3' carbon sugar of strand



**Proteins:** specific order of amino acids → primary structure

1° group → interactions determine structure + function

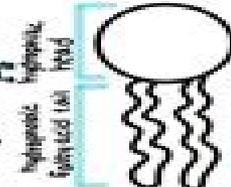


## PROTEINS

• 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  
• Cells, sterols, phospholipids  
• Saturated → no double bonds  
• Unsaturated → has double bonds  
• 4 in 1: triglycerides, cholesterol, make up the membrane  
• Steroids: hormones, 4 fused carbon rings, cholesterol, maintaining flexibility, embedded into cell membranes, polar region due to phosphorus and fatty acid



**Amino Acids:** have directionality  
• linear chains, connected by covalent bonds  
• amino end and carboxyl end

## 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 bond, hydrophobic  
• **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:

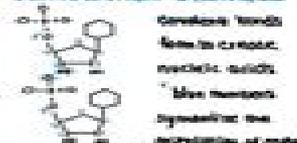
• the protein starts to lose its shape/structure when (bonds break)  
• Temperature change  
• pH of surrounding area  
• Salt concentration

NH<sub>2</sub> = 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

## DEHYDRATION SYNTHESIS



## Chaperones:

• protein molecules that assist protein folding

## 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

# Ap Biology Chapter 12 Notes

**K Morrison**



## Ap Biology Chapter 12 Notes:

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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## **Table of Contents Ap Biology Chapter 12 Notes**

1. Understanding the eBook Ap Biology Chapter 12 Notes
  - The Rise of Digital Reading Ap Biology Chapter 12 Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Chapter 12 Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Biology Chapter 12 Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Chapter 12 Notes
  - Personalized Recommendations
  - Ap Biology Chapter 12 Notes User Reviews and Ratings
  - Ap Biology Chapter 12 Notes and Bestseller Lists

5. Accessing Ap Biology Chapter 12 Notes Free and Paid eBooks
  - Ap Biology Chapter 12 Notes Public Domain eBooks
  - Ap Biology Chapter 12 Notes eBook Subscription Services
  - Ap Biology Chapter 12 Notes Budget-Friendly Options
6. Navigating Ap Biology Chapter 12 Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Ap Biology Chapter 12 Notes Compatibility with Devices
  - Ap Biology Chapter 12 Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Biology Chapter 12 Notes
  - Highlighting and Note-Taking Ap Biology Chapter 12 Notes
  - Interactive Elements Ap Biology Chapter 12 Notes
8. Staying Engaged with Ap Biology Chapter 12 Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Biology Chapter 12 Notes
9. Balancing eBooks and Physical Books Ap Biology Chapter 12 Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Biology Chapter 12 Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Chapter 12 Notes
  - Setting Reading Goals Ap Biology Chapter 12 Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Biology Chapter 12 Notes
  - Fact-Checking eBook Content of Ap Biology Chapter 12 Notes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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