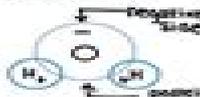


Structure of H<sub>2</sub>O  
hydrogen bonding  
Dimer of H<sub>2</sub>O



# 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 react, produce hydrogen and hydroxyl ions, releases H<sub>2</sub>O  
 Obedience → attracted to same  
 Attraction → attracted to other  
 Repulsion → hydrogen bonds  
 Repulsion → hydrogen bonds  
 Repulsion → surface of one liquid  
 Cohesion → surface of one liquid

THIS GONNA when ions → water expands due to hydrogen bonding, molecules want to stay together

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

more hydrogen bonds → more hydrogen pressure, cell formation  
 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, S
-------------------------------	------------------------	-------------------------------------	--------------------------------

Condensation synthesis is the removal of an H<sub>2</sub>O molecule to bond monomers together to create a bond between monomers (condensation)

## Nucleic acid structure:

• the carbon sugar (deoxyribose/ribose), phosphate, nitrogenous base (A, T, C, G), exact shape 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

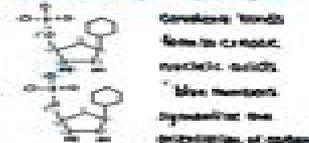
• differences in saturation determine structure and function  
 • Cells, sterols, phospholipids  
 • Saturated → no double bonds  
 • Unsaturated → has double bonds  
 4 in 1: triglycerides, cholesterol, make up cell membranes



## 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

NH<sub>2</sub> = Amino  
 COOH = Carboxyl

## NUCLEIC ACIDS

• add new nucleotides to the 3' end  
 • base 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  
 Every glucose monomer is upside down from its neighbor

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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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