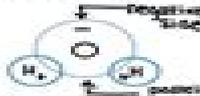


Structure of H<sub>2</sub>O  
hydrogen bonding  
Denser at 4°C



# 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, variable density, greater density as a solid.

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

OH<sup>-</sup> → attracted to same  
OH<sup>-</sup> → attracted to other  
OH<sup>-</sup> → hydrogen bonds  
OH<sup>-</sup> → hydrogen bonds  
OH<sup>-</sup> → surface of the liquid  
OH<sup>-</sup> → surface of the liquid

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

|                               |                        |                                     |                             |
|-------------------------------|------------------------|-------------------------------------|-----------------------------|
| Carbohydrates<br>↓<br>C, H, O | Lipids<br>↓<br>C, H, O | Nucleic acids<br>↓<br>C, H, N, O, P | Proteins<br>↓<br>C, H, N, O |
|-------------------------------|------------------------|-------------------------------------|-----------------------------|

Condensation synthesis: if the atoms of an H<sub>2</sub>O molecule to bond molecules, molecule to release a bond between molecules (water, protein)

## Nucleic acid structure:

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



Starch: 1,4 glucose  
Glycogen: 1,4 glucose  
Cellulose: 1,4 glucose  
Chitin: 1,4 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: triglycerides, cholesterol, most of the membrane  
\* Steroids: hormones, 4 fused carbon rings, cholesterol, maintaining flexibility, embedded into up 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

## 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

## 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 forms  
\* Tertiary: 3-D shape, hydrogen bonds, disulfide link, ionic bonds, hydrophobic, etc.  
\* 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

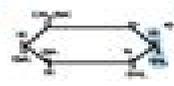
NH<sub>2</sub> = Amino  
COOH = Carboxyl

## ALDOSE VS KETOSE

\* contains aldehyde functional group

## ALPHA VS BETA

\* contains ketone functional group



\* all monomers are in the same orientation



\* Every glucose monomer is upside down from its neighbor

# Ap Biology Chapter 12 Notes

**Daniela Niemeyer**



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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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