

AP BIO: Unit One Study Guide

- Organic compounds: contain covalently bonded carbon; examples include lipids, proteins, nucleic acids and carbohydrates
- Functional groups: amino, carbonyl, carboxyl, hydroxyl, phosphate, and sulfhydryl (recognize structure)
- Lipids: non-polymer molecules used for long term energy storage (especially in animals), water-proofing, and insulation
 - o **Fat/Oil:** glycerol + 3 fatty acids; capital E shape
 - Saturated fat: bad for you; animals and some plants have it; solidifies at room temperature
 - Unsaturated fat: better for you; plants have it; liquefies at room temperature
 - o **Steroids:** lipids whose structures resemble chicken-wire fence; include cholesterol and sex hormones
 - o **Phospholipids:** glycerol + 2 fatty acids + 1 phosphate group; make up all membrane bilayers (in cells have hydrophobic interiors (the tails) and hydrophilic exteriors (the heads))
- Carbohydrates: used by cells for energy and structure; monomers are monosaccharides (glucose) or single sugars, disaccharides have two sugars (sucrose, maltose, lactose), and starches are long polymer chains of sugar; storage polysaccharides (starch [plants], glycogen [animals]), structural polysaccharides (chitin [fungal cell walls], cellulose [plant cell walls])
- Proteins: made of amino acid monomers; amino acids consist of an R group attached to an amino and a carboxyl; the amino group of one amino acid can be bonded to the carboxyl group of another amino acid through dehydration synthesis to create a peptide bond and build the protein polymer; proteins serve many functions (e.g., transport, enzymes, cell signals, receptor molecules, structural components, and channels)
 - o Structure: Primary — amino acid polymer made at the ribosome; Secondary — beta pleats or alpha helices; Tertiary — interactions between the R groups of the polymer; Quaternary — interactions with other separate polymer chains (find a buddy)
 - o Enzymes: catalytic proteins that react in an induced-fit fashion with substrates to speed up the rate of reactions by lowering the activation energy; effectiveness is affected by changes in pH, temperature, salinity, etc. due to denaturing of structure; examples — pepsin digests proteins and amylase digests starch within the digestive tract
- Nucleic Acids: DNA and RNA; carry the genetic code; monomers are nucleotides consisting of a phosphate group, 5-carbon sugar, and one of five nitrogen bases (adenine, guanine, cytosine, thymine, and uracil)
- ATP: Adenosine triphosphate molecule that acts as a temporary energy storage molecule (battery) for cellular reactions and processes; consisting of an adenosine molecule covalently bonded to three phosphate groups, the addition of the third phosphate group through dehydration synthesis stores small amounts of energy while the removal of the third phosphate group through hydrolysis releases small amounts of energy
- pH: logarithmic scale <7 acidic, 7 neutral, >7 basic (alkaline); pH 4 is 10 times more acidic than pH 5; buffers are enzymes that neutralize pH
- Reaction types
 - o **Hydrolysis:** breaks down polymers by adding water
 - o **Dehydration synthesis:** creates polymers by removing water
 - o **Endergonic reaction:** reaction that requires energy input (feels cold); makes bonds
 - o **Exergonic reaction:** reaction that gives off energy (feels hot); breaks bonds
- Bond types
 - o **Covalent bond:** sharing electrons; strong
 - o **Ionic bond:** transferring electrons; strong
 - o **Hydrogen bond:** temporary attraction between polar molecules; weak; always represented by a dotted line

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Table of Contents 40 Study Guide Ap Bio

1. Understanding the eBook 40 Study Guide Ap Bio
 - The Rise of Digital Reading 40 Study Guide Ap Bio
 - Advantages of eBooks Over Traditional Books
2. Identifying 40 Study Guide Ap Bio
 - 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 40 Study Guide Ap Bio
 - User-Friendly Interface
4. Exploring eBook Recommendations from 40 Study Guide Ap Bio
 - Personalized Recommendations
 - 40 Study Guide Ap Bio User Reviews and Ratings
 - 40 Study Guide Ap Bio and Bestseller Lists
5. Accessing 40 Study Guide Ap Bio Free and Paid eBooks
 - 40 Study Guide Ap Bio Public Domain eBooks
 - 40 Study Guide Ap Bio eBook Subscription Services
 - 40 Study Guide Ap Bio Budget-Friendly Options
6. Navigating 40 Study Guide Ap Bio eBook Formats

- ePub, PDF, MOBI, and More
- 40 Study Guide Ap Bio Compatibility with Devices
- 40 Study Guide Ap Bio Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 40 Study Guide Ap Bio
- Highlighting and Note-Taking 40 Study Guide Ap Bio
- Interactive Elements 40 Study Guide Ap Bio

8. Staying Engaged with 40 Study Guide Ap Bio

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 40 Study Guide Ap Bio

9. Balancing eBooks and Physical Books 40 Study Guide Ap Bio

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 40 Study Guide Ap Bio

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 40 Study Guide Ap Bio

- Setting Reading Goals 40 Study Guide Ap Bio
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 40 Study Guide Ap Bio

- Fact-Checking eBook Content of 40 Study Guide Ap Bio
- 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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web table of contents 1 introduction concept of stress 2 stress and strain axial loading 3 torsion 4 pure bending 5 analysis and design of beams for bending 6 shearing stresses in beams and thin walled members 7 transformations of stress and strain 8 principal

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