AP BIOLOGY

UNIT 1 Chemistry of Life

1.1 Structure of Water and Hydrogen Bonding

- The subcomponents of biological molecules and their sequence determine the properties
 of that molecule.
- Living systems depend on properties of water that result from its polarity and hydrogen bonding.
- The hydrogen bonds between water molecules result in cohesion, adhesion, and surface tension.

1.2 Elements of Life

- Organisms must exchange matter with the environment to grow, reproduce, and maintain organization.
- Atoms and molecules from the environment are necessary to build new molecules—
 - a. Carbon is used to build biological molecules such as carbohydrates, proteins,
 lipids, and nucleic acids. Carbon is used in storage compounds and cell formation
 - b. Nitrogen is used to build proteins and nucleic acids. Phosphorus is used to build nucleic acids and certain lipids.

1.3 Introduction to Biological Macromolecules

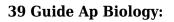
in all organisms.

 Hydrolysis and dehydration synthesis are used to cleave and form covalent bonds between monomers

1.4 Properties of Biological Macromolecules

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Terry C. Jones



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