

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 pH5; 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

Guide Assignment Ap Bio

Mark J. Gierl, Thomas M. Haladyna



Guide Assignment Ap Bio:

Developing Assessments for the Next Generation Science Standards National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Board on Testing and Assessment, Committee on Developing Assessments of Science Proficiency in K-12, 2014-05-29 Assessments understood as tools for tracking what and how well students have learned play a critical role in the classroom Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education for the future as it has been elaborated in A Framework for K 12 Science Education Framework and Next Generation Science Standards NGSS These documents are brand new and the changes they call for are barely under way but the new assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their approach to science education The new Framework and the NGSS are designed to guide educators in significantly altering the way K 12 science is taught The Framework is aimed at making science education more closely resemble the way scientists actually work and think and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time It structures science education around three dimensions the practices through which scientists and engineers do their work the key crosscutting concepts that cut across disciplines and the core ideas of the disciplines and argues that they should be interwoven in every aspect of science education building in sophistication as students progress through grades K 12 Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework This report reviews recent and current work in science assessment to determine which aspects of the Framework s vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision The report offers a systems approach to science assessment in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework s vision should consist of assessments designed to support classroom instruction assessments designed to monitor science learning on a broader scale and indicators designed to track opportunity to learn New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students

Automatic Item Generation Mark J. Gierl, Thomas M. Haladyna, 2013 Automatic item generation AIG represents a relatively new and unique research area where specific cognitive and psychometric theories are applied to test construction practices for the purpose of producing test items using technology The purpose of

this book is to bring researchers and practitioners up to date on the growing body of research on AIG by organizing in one volume what is currently known about this research area Part I begins with an overview of the concepts and topics necessary for understanding AIG by focusing on both its history and current applications Part II presents two theoretical frameworks and practical applications of these frameworks in the production of item generation Part III summarizes the psychological and substantive characteristics of generated items Part IV concludes with a discussion of the statistical models that can be used to estimate the item characteristics of generated items features one future application of AIG describes the current technologies used for AIG and also highlights the unresolved issues that must be addressed as AIG continues to mature as a research area Comprehensive The book provides a comprehensive analysis of both the theoretical concepts that define automatic item generation and the practical considerations required to implement these concepts Varied Applications Readers are provided with novel applications in diverse content areas e g science and reading comprehension that range across all educational levels elementary through university

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