

# unit 1 : the chemistry of life

## Bonds

**ionic bonds**

- involving a transfer of valence electrons from one atom to another
- strongest type of bond
- found in salts
- high melting and boiling points
- high electrical conductivity

**covalent bonds**

- atoms share valence electrons
- stronger than hydrogen bonds
- found in most organic molecules
- low melting and boiling points
- poor electrical conductivity

**hydrogen bonds**

- weak bonds between polar molecules
- found in water, DNA, and proteins
- responsible for many biological processes



**Carbon** - is the basis of organic compounds  
 - has four valence electrons (1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>2</sup>)

**Functional Groups** - groups of atoms that are attached to a carbon atom and determine its chemical behavior

**Steps:** determine function

## FUNCTIONAL GROUPS



**Water**

Water is a polar molecule due to the difference in electronegativity between oxygen and hydrogen.

**Hydrogen Bonding**

- Occurs between the partially positive hydrogen atom of one water molecule and the partially negative oxygen atom of another water molecule.
- Responsible for water's high boiling point, high specific heat, and high surface tension.

**High Specific Heat** - due to the hydrogen bonds that must be broken to raise the temperature of liquid water.

**Surface Tension** - due to the cohesive forces between water molecules at the surface.



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**Capillary Action** - the ability of water to rise in a narrow tube due to the combination of cohesive and adhesive forces.

**CARBOHYDRATES** - C, H, O

**Monosaccharides** - simple sugars (e.g., glucose, fructose)

**Disaccharides** - two monosaccharides linked together (e.g., sucrose, lactose)

**Polysaccharides** - long chains of monosaccharides (e.g., starch, glycogen, cellulose)

**Polysaccharides**

- Starch** - storage polysaccharide in plants
- Glycogen** - storage polysaccharide in animals
- Cellulose** - structural polysaccharide in plants

**Hydrolysis** - breaking down of polymers into monomers

**Condensation** - joining of monomers into polymers

## macromolecules

**LIPIDS** - C, H, O

- Hydrophobic
- Not soluble in water
- Store energy
- Form cell membranes

**PROTEINS** - C, H, O, N

- Enzymes
- Structural proteins
- Transport proteins
- Antibodies

**NUCLEIC ACIDS** - C, H, O, N, P

- Store and transmit genetic information
- Form the backbone of DNA and RNA

# AP BIO

## unit 1 review

From a student who received  
**A 5 on the 2024 Exam**

# Bio Ap Guide

**Ap Biology Exam Book Test Prep Team**

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**Illustrated Guide to Home Biology Experiments** Robert Thompson, Barbara Fritchman Thompson, 2012-04-19 Perfect for middle and high school students and DIY enthusiasts this full color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home Features more than 30 educational and fun experiments **Ap Biology Ultimate Guide** Amanda Chou, 2018-08-16 AP Biology Ultimate Guide is a must have study guide for success on the AP Biology Test **AP Biology Review Book** Ap Biology Test Prep Team, 2017-03-17 Study guide test prep for the Advanced Placement biology exam Comprehensive reviews proven test strategies practice test questions Cover **Readers' Guide to Periodical Literature**, 1916 **AP Biology Study Guide**, 2018 **Learning and Understanding** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs **Guide to Reference Books** Isadore Gilbert Mudge, 1929 **ASAP Biology: a Quick-Review Study Guide for the AP Exam** The Princeton Review, 2017-12-12 A quick review study guide for the AP exam Cover **AP Biology Exam Secrets Study Guide** AP Exam Secrets Test Prep, 2018-04-12 Includes Practice Test Questions AP Biology Exam Secrets helps you ace the Advanced Placement Exam without weeks and months of endless studying Our comprehensive AP Biology Exam Secrets study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined AP Biology Exam Secrets includes The 5 Secret Keys to AP Exam Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don't Procrastinate Test Yourself Maximizing Your Preparation including Test Taking Tips Final Tips for Test Day Along with a complete in depth study guide for your specific AP exam and much more **AP Biology 2016 Study Guide** Ap Biology Exam Book Test Prep Team, 2015-12-15 AP Biology 2016 Study Guide Textbook and Review Prep for the Advanced Placement Biology Test Developed for test takers trying to score well on the AP Biology Exam this comprehensive study guide includes Quick Overview Test Taking Strategies Cellular Processes Energy and Communication Evolution Genetics and

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*Laboratory Manual of Biology* George William Hunter, Morris Crawford Valentine, 1906

*AP Biology For Dummies* Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02

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*Bulletin ... of the Wistar Institute of Anatomy and Biology*, 1909

**Worldly Philosophers** Mary Ellen Snodgrass, 1965-06-30 Heilbroner's *The Worldly Philosophers* is an engaging text covering the development of modern economic philosophy including transitional periods like the scientific revolution Renaissance commercial revolution and the Great Depression This comprehensive guide supplements the text and covers the important concepts brought about by Adam Smith Parson Malthus David Ricardo Karl Marx John Maynard Keynes Joseph Schumpeter and more

*Manual of Chemistry* William Simon, 1884

CliffsNotes on Shakespeare's Much Ado About Nothing Richard

O Peterson,2007-08-20 One of Shakespeare s romantic comedies this play is set in the seaport town of Messina in Sicily The drama concerns the battle of the sexes and focuses on the barbed wits and intrigues that two sets of lovers and their friends and family create Brimming with wit and antagonism the play has amused and provoked audiences for centuries The Tempest L... L. Hillegass,L. L. Hillegass,1971 The Tempest is one of Shakespeare s later plays and can be classified as a romance While it is an enjoyable fairy tale of sorts complete with good and bad uncomplicated love and miraculous incidents the play also incorporates many of the playwright s common themes such as the reconciliation of families that endure hardship The CliffsComplete The Tempest is a revised and expanded study edition It contains Shakespeare s original play a glossary and expert commentary in a unique 2 column format To enhance your learning notes and definitions appear directly opposite the line in which they occur and a review section follows the play This edition also introduces you to the life works and times of William Shakespeare AP Biology Exam Secrets Mometrix Media LLC,2010

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