

## Chapter 2

### The Chemistry of Biology

#### Atoms, Bonds, and Molecules

Matter: all tangible materials that occupy space and have mass

Atom: a tiny particle that cannot be subdivided into smaller substances without losing its properties

Properties of atoms:

- Protons ( $p^+$ ): positively charged, found in the nucleus
- Neutrons ( $n^0$ ): no charge, also found in the nucleus
- Electrons ( $e^-$ ): negatively charged, surround the nucleus

#### Electron Orbitals and Shells

Atomic number: number of protons

Atomic mass: number of protons and neutrons

Orbital:

- Pathways in which electrons rotate around the nucleus

#### Models of Atomic Structure

↳ image

#### Major Elements of Life and Their Primary

#### Characteristics 1

Element:

- An atom with a characteristic atomic structure and predictable chemical behavior

#### Bonds and Molecules 1

Molecule:

- A chemical substance that results from the combination of two or more atoms.
- $O_2$ ,  $N_2$

Compound:

- A molecule composed of two or more *different* elements
- $H_2O$ ,  $C_6H_{12}O_6$

#### Bonds and Molecules 2

Chemical bonds:

- Result when two or more atoms share, donate (lose), or accept (gain) electrons

#### Covalent Bonds and Polarity 1

Covalent bonds:

- Form between atoms that share electrons rather than donating or receiving them
- Single covalent bonds share a pair of electrons ( $H_2$ )
- Double covalent bonds share two pairs of electrons and are more rigid

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**Holt Biology: Meiosis and sexual reproduction** ,2003     *Holt Biology Resource File* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004     Holt Biology: The environment ,2003     Holt Biology Holt Rinehart & Winston,2003-08     *Holt Biology: Mendel and heredity* ,2003     **BIOLOGY OF NON-CHORDATES** FATIK BARAN MANDAL,2017-11-01 The second edition of the book is an elaborated and updated version of the title Invertebrate Zoology which was published in the year 2012 In addition to the detailed description of representative genus of each of the major groups the text provides latest developments in zoology and other related life science disciplines This book now with a different title in the second edition gives an account of 36 phyla in comparison of 12 phyla explained in the first edition NEW TO THE SECOND EDITION

Explains phyla such as Placozoa Myxozoa Nemertea Gnathostomulida Micrognathozoa Cycliophora Xenoturbellida Acoelomorpha Orthonectida Rhombozoa Gastrotricha Kinorhyncha Loricifera Priapulida Nematoda Nematomorpha Acanthocephala Entoprocta Sipuncula Echiura Pentastomida Onychophora Tardigrada Brachiopoda and Chaetognatha in the light of recent studies Discusses contemporary accounts on adaptive morphology anatomy and physiology including diversity in the mode of locomotion nutrition respiration and reproduction in major groups Emphasizes life cycle pattern of representative genus with well illustrated diagrams Provides Short and Long answer questions at the end of each chapter along with references

**Syllabus and Daily Plans for a Course in Biology for Secondary Schools** Rodney Arthur Slagg,1924 *Essentials of Biology* Holt Rinehart & Winston,1998 **Chapter Resource 5 Photosynthesis/Cell Response Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Assessing Science Understanding** Joel J. Mintzes,James H. Wandersee,Joseph D. Novak,2005-08-22 Recent government publications like Benchmarks for Scientific Literacy and Science for all Americans have given teachers a mandate for improving science education in America What we know about how learners construct meaning particularly in the natural sciences has undergone a virtual revolution in the past 25 years Teachers as well as researchers are now grappling with how to better teach science as well as how to assess whether students are learning *Assessing Science Understanding* is a companion volume to *Teaching Science for Understanding* and explores how to assess whether learning has taken place The book discusses a range of promising new and practical tools for assessment including concept maps vee diagrams clinical interviews problem sets performance based assessments computer based methods visual and observational testing portfolios explanatory models and national examinations **Gaither's Dictionary of Scientific Quotations** Carl C. Gaither,Alma E. Cavazos-Gaither,2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

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