

## 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

# Holt Biology Chapter 2c Test

**Rob DeSalle, Holt Rinehart and  
Winston**



## **Holt Biology Chapter 2c Test:**

*Holt Biology: Principles and Explorations* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1997-03      **Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008      **Holt Biology Chapter 41 Resource File: Nervous System** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004      Holt Biology Holt Rinehart & Winston, 2003-08      Chapter Resource 2 Chemistry of Life Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004      **The Myth of Achievement Tests** James J. Heckman, John Eric Humphries, Tim Kautz, 2014-01-14

Achievement tests play an important role in modern societies. They are used to evaluate schools to assign students to tracks within schools and to identify weaknesses in student knowledge. The GED is an achievement test used to grant the status of high school graduate to anyone who passes it. GED recipients currently account for 12 percent of all high school credentials issued each year in the United States. But do achievement tests predict success in life? The Myth of Achievement Tests shows that achievement tests like the GED fail to measure important life skills. James J. Heckman, John Eric Humphries, Tim Kautz, and a group of scholars offer an in-depth exploration of how the GED came to be used throughout the United States and why our reliance on it is dangerous. Drawing on decades of research, the authors show that while GED recipients score as well on achievement tests as high school graduates who do not enroll in college, high school graduates vastly outperform GED recipients in terms of their earnings, employment opportunities, educational attainment, and health. The authors show that the differences in success between GED recipients and high school graduates are driven by character skills. Achievement tests like the GED do not adequately capture character skills like conscientiousness, perseverance, sociability, and curiosity. These skills are important in predicting a variety of life outcomes. They can be measured, and they can be taught. Using the GED as a case study, the authors explore what achievement tests miss and show the dangers of an educational system based on them. They call for a return to an emphasis on character in our schools, our systems of accountability, and our national dialogue.

Contributors: Eric Grodsky, University of Wisconsin-Madison; Andrew Halpern, Indiana University-Bloomington; Paul A. LaFontaine, Federal Communications Commission; Janice H. Laurence, Temple University; Lois M. Quinn, University of Wisconsin-Milwaukee; Pedro L. Rodriguez, Institute of Advanced Studies in Administration; John Robert Warren, University of Minnesota-Twin Cities.

Forages, Volume 2 Kenneth J. Moore, Michael Collins, C. Jerry Nelson, Daren D. Redfearn, 2020-06-03

*Forages: The Science of Grassland Agriculture* 7th Edition Volume II will extensively evaluate the current knowledge and information on forage agriculture. Chapters written by leading researchers and authorities in grassland agriculture are aggregated under section themes, each one representing a major topic within grassland science and agriculture. This 7th edition will include two new additional chapters covering all aspects of forage physiology in three separate chapters instead of one in previous editions. Chapters will be updated throughout to include new information that has developed since the last edition. This new edition of the classic reference serves as a comprehensive supplement to *An Introduction to Grassland Agriculture* Volume I.

**Holt Science and Technology 2002** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2002     *Holt Biology*  
*Resource File* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004     **Chapter Resource 5**  
**Photosynthesis/Cell Response Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004     **Essentials of**  
**Biology** Holt Rinehart & Winston, 1998     **Books in Print Supplement**, 2002     Holt Algebra 1 2003 Holt Rinehart &  
Winston, Holt, Rinehart and Winston Staff, 2003     **Thinking Skills Worksheets W/Answers Hlt Bio** Holt Rinehart & Winston, 1998  
**First Course in Biology** Liberty Hyde Bailey, Walter Moore Coleman, 1908     **Syllabus and Daily Plans for a Course**  
**in Biology for Secondary Schools** Rodney Arthur Slagg, 1924     **Biology**, 1998     **Holt Geometry** Eugene Douglas  
Nichols, Edwards, Joan Hoffman, Palmer, 1978     **Holt Science and Technology** Holt Rinehart & Winston, 2004-02  
**Forthcoming Books** Rose Arny, 2003

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