



# Chapter 2: The Chemistry Of Life

## All things are made up of atoms

- all matter takes up space (solids, liquids, gasses) is made up of **elements**
  - element= a substances that cannot be broken down chemically into other substances
    - e.g. oxygen, gold, aluminum, calcium, iron, etc.
- there are over 100 elements that we know of
- but there are only 25 elements essential to life
  - if a living things is deficient in any one element they can become ill or die
  - an iron deficiency= anemia (low red blood cells) which cause fatigue, impaired immune function & eventually death
  - a potassium deficiency= muscle cramps, weakness, eventually the heart will stop beating
  - an iodine deficiency= goiters (swollen thyroid glands, located in the neck), depression, & eventually deficits in mental function
- atoms themselves are all made up of 3 components:
  - protons= positive charge
  - neutrons=no charge
  - electrons=negative charge
    - orbit around the nucleolus within electron shells
    - electrons are in constant motion orbit the nucleus- the shells just represent where they are orbiting
  - atoms are electrically neutral because the number of protons is equal to the number of electrons

# Chapter 2 The Chemistry Of Life

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**Habit and Intelligence: a Series of Essays on the Laws of Life and Mind** Joseph John Murphy, 1879 *Chemistry and Life* John William Hill, Dorothy M. Feigl, 1983 *Ntg- Human Biology 5e Note-Taking G* Chiras, 2005-05-27 **Life: The Science of Biology** David M. Hillis, H. Craig Heller, Sally D. Hacker, David W. Hall, Marta J. Laskowski, David E. Sadava, 2020-07-16 The new 12th edition of Life The Science of Biology continues to be engaging active and focused on teaching the skills that students need to master the majors biology course New pedagogical features work in conjunction with powerful updates to the online suite of materials in Achieve to support the mission of Life by teaching students the skills and understanding of experimentation and data they need to succeed in introductory biology and ultimately in their future STEM careers Life s potent combination of expertly crafted media assessment pedagogy and engagement makes this new edition the best resource yet for biology students **Scientific American Biology for a Changing World with Physiology** Michele Shuster, Janet Vigna, Matthew Tontonoz, 2020-12-16 Biology for a Changing World with Physiology is a textbook you ll actually want to read By presenting the science through compelling Scientific American style stories this book will help you understand the relevance of biology to your world **Study Guide to Accompany Biology: Life on Earth by Teresa Audesirk and Gerald Audesirk** David J. Cotter, 1986 **Habit and intelligence in their connexion with the laws of matter and force** Joseph John Murphy, 1879 **Principles of Life** David M. Hillis, David E. Sadava, Richard Hill, Mary V. Price, 2014-07-15 With its first edition Principles of Life provided a textbook well aligned with the recommendations proposed in BIO 2010 Transforming Undergraduate Education for Future Research Biologists and Vision and Change in Undergraduate Biology Education Now Principles of Life returns in a thoroughly updated new edition that exemplifies the reform that is remaking the modern biology classroom Biology World of Life Gerald Sanders, Wallace, Cheryl Jeffrey, 1990-04 *Glencoe Science* Alton Biggs, McGraw-Hill Staff, 2001-09 **A View of Life** Salvador Edward Luria, Stephen Jay Gould, Sam Singer, 1981 **Life** Ricki Lewis, 2002 **The Life and Times of Henry Lord Brougham** Henry Brougham Baron Brougham and Vaux, 1871 *Signatures of Life* Edward Ashpole, 2013 For 50 years astronomers in SETI Search for Extraterrestrial Intelligence have scanned the universe for intelligent signals but with no success In this intriguing book Ashpole explains the probable reasons for this and discusses other avenues of investigation **Farm Knowledge ...: Farm life** Edward Loomis Davenport Seymour, 1919 Guide to Literature of Home and Family Life Annie Isabel Robertson, 1924 **Guide to Literature of Home and Family Life** Annie Robertson Dyer, 1924 **The Industrial History of England** Henry de Belogens Gibbins, 1894 A History of Ideas About the Prolongation of Life Gerald Joseph Gruman, 2003-02-26 Dr Gruman s book examines the quest for longevity and immortality up to the year 1800 He presents multicultural perspectives and attitudes as depicted in Islamic and Chinese societies as well as in Western Civilization This scholarly work contributes to our understanding of the origins of medicine personal hygiene and public

health as well as the underlying psychological and social determinants of longevity and humanity's longing for its attainment

Biology for a Changing World Michele Shuster, Janet Vigna, Gunjan Sinha, Matthew Tontono, 2014-03-07 From the groundbreaking partnership of W H Freeman and Scientific American comes this one of a kind introduction to the science of biology and its impact on the way we live In Biology for a Changing World two experienced educators and a science journalist explore the core ideas of biology through a series of chapters written and illustrated in the style of a Scientific American article Chapters don't just feature compelling stories of real people each chapter is a newsworthy story that serves as a context for covering the standard curriculum for the non majors biology course Updated throughout the new edition offers new stories additional physiology chapters a new electronic Instructor's Guide and new pedagogy

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