

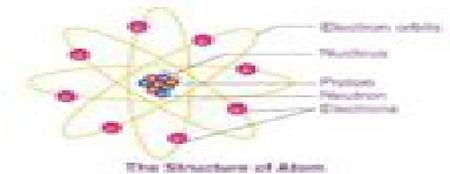
## Chapter 2: The Chemistry of Life

### ➤ Legos of the Universe

- Atoms
- Elements
  - Gold, carbon, silver, etc. (periodic table)

### ➤ Atomic Structure

- Nucleus
  - Proton (+)
  - Neutrons (no charge)
- Electron Shell



### ➤ Isotopes

- Atomic Mass

### ➤ Radioactive Atoms

- Some atomic nuclei are not stable and break down randomly
- These atoms are radioactive
- During decomposition they release, at a constant rate, a tiny high-speed particle carrying a lot of energy

### ➤ Electron shells determine bonding patterns

### ➤ Versatility of Carbon

- Can make 4 bonds
- Most often with C, H, O, and N
- Huge potential variety

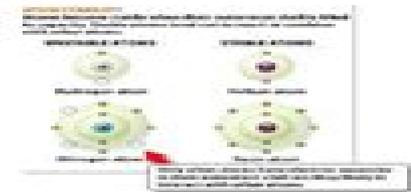
### ➤ Ions

- Particles in the outer shell

### ➤ Changing Parts of the Atom

- What happens if you...
  - Add an electron to chlorine
  - Add a neutron to nitrogen
  - Add a proton to hydrogen

#### OUTER ELECTRON SHELLS AND ATOM STABILITY



Number of proton = 11  
 Number of electrons = 11  
 Charge = 0 (Neutral)

Number of proton = 11  
 Number of electrons = 10  
 Charge = +1

### ➤ Elements in Living Things

- Oxygen
- Carbon
- Hydrogen
- Nitrogen

### ➤ Molecules

- Molecules
- Bond energy
- Chemical reactions
  - **Reactants > Products**

### ➤ Chemical Bonding

- Covalent
- Ionic

# Chapter 2 The Chemistry Of Life Answer Key Concept Map

**Holt Rinehart & Winston, Holt,  
Rinehart and Winston Staff**



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Chapter Resource 2 Chemistry of Life Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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Prentice Hall Chemistry, 2000

**Biology** Joseph S. Levine, Kenneth R. Miller, 1998 *Biological Science*

Biological Sciences Curriculum Study, 1996

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Manjit Kaur, Series of books for class 1 to 8 for ICSE schools The main goal that this series aspires to accomplish is to help students understand difficult scientific concepts in a simple manner and in an easy language

*Glencoe Science*, 2002

Concepts in Biology Eldon D. Enger, Frederick C. Ross, David B. Bailey, 2005 Concepts in Biology is a short student friendly text organized in a traditional manner It has very little botany and presents a human oriented approach to the animal unit Professors and students appreciate the low cost of this title and that it is written for students who are not biology majors

Fundamentals of Chemistry Ralph A. Burns, 1995 *Chemistry* Karen Timberlake, 2003 Chemistry An Introduction to General Organic and Biological Chemistry now in its eighth edition makes chemistry exciting by showing why important concepts are relevant to the lives and future careers of readers The new design digital images photos Career Focus features and macro to micro art enhance the new edition while it retains the many features that have made this book so successful The writing as always is exceptionally friendly Each section contains sample problems that develop readers critical thinking skills This edition also contains more conceptual problems than ever before and has been redesigned to accommodate new styles of learning and teaching with a wide variety of pedagogical tools Health and Environmental Notes throughout the book highlight topics that are relevant to readers lives and are ideal for classroom discussion Explore Your World activities in each chapter make chemistry exciting relevant and non threatening

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Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter **Biology** ,1998 Te HS&T J Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02

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