

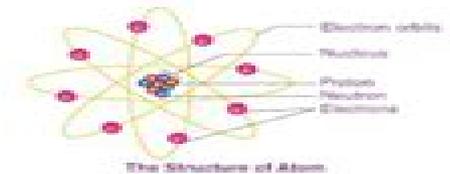
Chapter 2: The Chemistry of Life

➤ 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



➤ 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

Annelies Wilder-Smith



Chapter 2 The Chemistry Of Life Answer Key Concept Map:

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

Lakhmir Singh's Science Chemistry for ICSE Class 6 Lakhmir Singh & 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
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Prentice Hall Chemistry, 2000 *Biological Science* Biological Sciences Curriculum Study, 1996 *Biology* Joseph S.

Levine, Kenneth R. Miller, 1998 **Lakhmir Singh's Science for Biology ICSE Class 8** Lakhmir Singh & 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

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Chapter 2 The Chemistry Of Life Answer Key Concept Map**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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