

CHAPTER 1: BIOLOGY: EXPLORING LIFE

1.1 All forms of life share common properties

Common Properties

1. Order
2. Reproduction
3. Growth and Development
4. Energy Processing
5. Response to the Environment
6. Regulation
7. Evolutionary Adaptation

- Points:
 - **Living cells** are the basis of the complex organization of life.

1.2 In life's hierarchy of organization, new properties emerge at each level

1. **Biosphere**
2. **Ecosystem** - all of the organisms living in a particular area with physical components
3. **Community** - the entire array of organisms in an ecosystem
4. **Population** - all the individuals of a particular species living in an area
5. **Organism** - individual living thing
6. **Organ System** - consists of several organs that cooperate in a specific function
7. **Organ** - made up of several different tissues
8. **Cell** - the fundamental unit of life
9. **Organelle** - a membrane-enclosed structure that performs a specific function in a cell
10. **Molecule** - is a cluster of small chemical units called atoms

- Points:
 - **DNA (deoxyribonucleic acid)** - the molecule of *inheritance*
 - Each unique form of life is called a **species**.
 - The **emergent properties** of each level result from the specific arrangement and interaction of its parts.

1.3 Cells are the structural and functional units of life

Biology Exploring Life Study Guide

RJ Alexander



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, 2001 **Biology: Exploring Life** 1st Campbell and Williamson and Heyden, Campbell, Williamson, Cram 101 Textbook Reviews, Heyden, 2006-06 Never HIGHLIGHT a Book Again Virtually all of the testable terms concepts persons places and events from the textbook are included Cram 101 Just the FACTS 101 studyguides give all of the outlines highlights notes and quizzes for your textbook with optional online comprehensive practice tests Only Cram 101 is Textbook Specific Accompanys 9780130625922 Study Guide for Use with Biology: Exploring the Diversity of Life Colin Montpetit, 2010 *Recording for the Blind & Dyslexic, ... Catalog of Books*, 1996

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