

# 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 Review Answers Chapter 28

**S Ashworth**



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## **Biology Exploring Life Review Answers Chapter 28** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Biology Exploring Life Review Answers Chapter 28**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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