

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

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