

# 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

**L Towne**



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