

Modern Biology Chapter 1

What is life?

All living organisms share five fundamental characteristics:

1. Energy
 - a. All organisms acquire and use energy
 - b. Maintain homeostasis (internal constancy)
2. Cells
 - a. All organisms are made of membrane-bound cells
3. Information
 - a. All organisms process hereditary information and information from the environment
4. Growth and replication
 - a. All organisms are capable of growth and reproduction
5. Evolution
 - a. Populations of organisms are continually evolving

Is it alive?

Check for the five characteristics

- Energy
- Organization
- Internal constancy
- Reproduction, growth, and development
- Evolution

The characteristics of life: all organisms are made of cells

- Cells are the basic units of life
- Every organism, or living individual, consists of one or more cells
 - Bacterial and Archaea Domains
 - Cells lack nuclei (prokaryotic)
 - Most are unicellular
 - Protista (multiple kingdoms)
 - Unicellular or multicellular
 - Autotrophs or heterotrophs

Life is Organized

- The matter that makes up life is organized into atoms
 - All matter, living and nonliving, is composed of atoms
 - Atom: the smallest chemical unit of a type of pure substance (element).
 - Example: Carbon atom
- Atoms are organized into molecules
 - Molecule: a group of joined atoms.
 - Example: DNA

Modern Biology Chapter 1study Guide Answers

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