

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 Notes

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Modern Biology Chapter Notes:

Modern Biology Chapter Notes Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Modern Biology Chapter Notes**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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