

## 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

**Julia Schneider**



## **Modern Biology Chapter Notes:**

Modern Biology Chapter Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Modern Biology Chapter Notes : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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