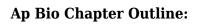
- · Chapter One: Big Ideas In Biology
  - Biological systems interact, and these systems and their interactions possess complex properties.
    - The cell is an organism's basic unit of structure and function
      - Study of life can be divided into different levels of biological organization and examined at different scales
    - New properties emerge at successive levels of biological organization
      - emergent properties result from the arrangement and interaction of parts within a system as complexity increases
        - Ex: a functioning bicycle emerges only when all of the necessary parts connect in the correct way
  - Biological systems utilize free energy and molecular building blocks to grow, reproduce, and maintain dynamic homeostasis
    - Life requires the transfer and transformation of energy and matter
      - Input of energy primarily comes from sun, light energy transfers into other forms to make life possible
      - Once energy is consumed, it can be used to do work
      - Energy flow is 1 way through ecosystem: usually enters as light and leaves as heat
    - Feedback mechanisms regulate biological systems
      - Feedback loops: the output of a system amplifies the system (positive feedback) or inhibits the system (negative feedback)
        - Negative feedback is more common than positive feedback
  - Living systems store, retrieve, transmit, and respond to information essential to life processes
    - Life's processes involve expression and transmission of genetic information
      - DNA is inherited by offspring from their parents, controls the development and maintenance of organisms
  - The process of evolution drives the diversity and unity of life
    - Interactions with other organisms and the physical environment are important. Those that survive these interactions go on to reproduce.
       Genetic traits from those that reproduce are passed on, so offspring are better matched to their environment.
      - Structure and function are correlated at ALL levels
      - Evolution accounts for the unity and diversity of life!
- · Chapter One: Characteristics Of Life!
  - Organisms that are living can:
    - Grow and develop
    - Reproduce
    - Use and store energy/metabolize
    - Respond to stimuli and their environment
    - Adapt and evolve
    - Have DNA

# **Ap Bio Chapter Outline**

Kim Magloire, Princeton Review (Firm)



The Enigmatic Realm of Ap Bio Chapter Outline: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Ap Bio Chapter Outline** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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