

# UNIT 8: ECOLOGY



**Ecology:**  
• *Definition:* Ecology is the study of the relationships between organisms and biological environments.

- Levels of Organization:**
- **Individual:** Study of the characteristics and behaviors of individual organisms.
  - **Population:** Focus on interactions and characteristics of a group of individuals of the same species.
  - **Community:** Study of interactions between different species in an area.
  - **Ecosystem:** Examining the interactions between organisms and their physical environment.
  - **Biome:** A major ecological region characterized by its vegetation and climate.
  - **Biosphere:** The entire planet Earth, including all living organisms and their interactions with the physical environment.

**Population Ecology:**  
• *Definition:* Population dynamics of populations over time.

- Population Growth Models:**
- Exponential Growth

# AP Biology Study Guide/Cheat Sheet

substrates enter active site; enzyme changes shape such that its active site fits the substrates (induced fit).



4

metaphase, anaphase, telophase

its genes along with its non-

- **Chromosomes**
  - Cellular structure carrying genetic material, found in the nucleus of cells
  - Each chromosome consists of one very long DNA molecule and proteins
- **Chromatin**
  - Complex of DNA & proteins that makes up eukaryotic chromosomes
  - When cell isn't dividing, chromatin exists in dispersed form, as a long, thin fibers that aren't visible with a light microscope
- **Somatic Cells**

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**RM Cervero**



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