

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 the interactions between different species in an area.
- **Ecosystem:** Examining the interactions between the community and its physical environment.
- **Biome:** A major ecological region characterized by its climate and vegetation.
- **Biosphere:** The entire Earth, including all living organisms and their environments.

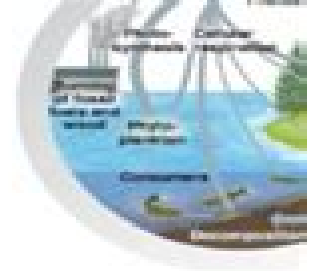
Population Ecology:

- **Definition:** Population dynamics of populations over time.

Population Growth Models:

- **Exponential Growth:** A population grows at a constant rate.

AP Biology Study Guide/Cheat Sheet

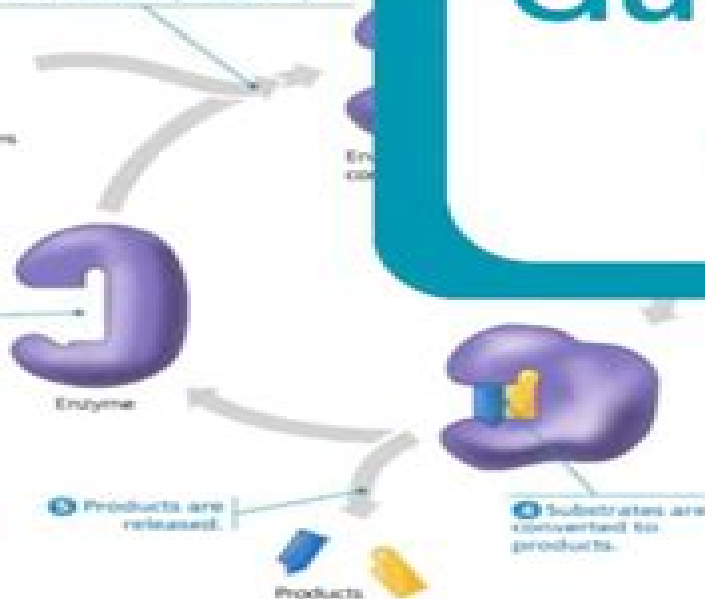


4

metaphase, anaphase, telophase

its genes along with its nonc-

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



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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L Darling-Hammond



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oct 22 2023 lion large powerfully built cat that is second in size only to the tiger the proverbial king of the beasts the lion has been one of the best known wild animals since earliest times lions are most active at night and live in a variety of habitats but prefer grassland savanna dense scrub and open woodland

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