

UNIT 8: ECOLOGY

Ecology:

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



Levels of Organization:

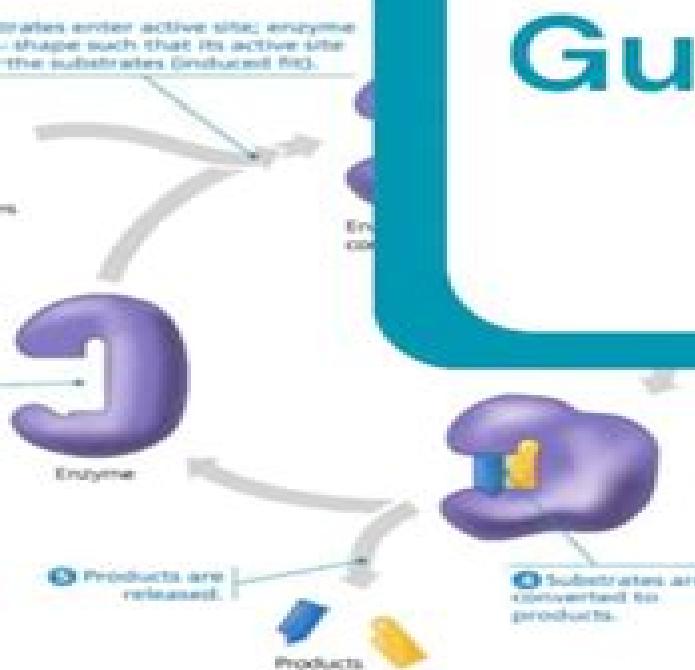
- **Individual:** Study of the characteristics and behaviors of individual organisms.
- **Population:** Focus on interactions and characteristics of a group of the same species.
- **Community:** Study of interactions between different populations.
- **Ecosystem:** Examines interactions between living organisms and their environment.
- **Biome:** A major ecosystem type characterized by vegetation.
- **Biosphere:** The entire planet Earth.

Population Ecology:

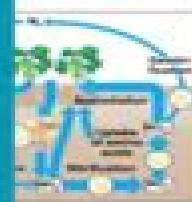
- **Definition:** Population dynamics of populations.

Population Growth Modes:

- Exponential Growth:



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4

metaphase, anaphase, telophase

cell's genes along with its non-coding

- Cellular structure carrying genetic material, found in the nucleus of eukaryotic 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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Emilie Sanchez

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