

Ecology: Reference Guide

Quick Study ACADEMIC

ECOLOGY

Relationships of Organisms to Their Environment

Levels of Organization

- Biophere** - Where life exists on Earth
- Environment** - Surrounding and affects communities and individuals
- Community** - Assemblage of interacting organisms in one environment
- Population** - Group of individuals of the same species in one environment
- Organism** - Individual organism
- Organ System** - Group of different organs working together
- Organ** - Group of all living tissues working together
- Tissue** - Group of cells working together
- Cell** - Basic functional unit of organisms
- Organelle** - Cell structure with specific function
- Molecule** - Group of atoms

A Functional Unit in Ecology

- Autotrophs** - Use either photosynthesis or chemosynthesis
- Heterotrophs** - Use food molecules produced by autotrophs
- Major groups**
 - Animals
 - Fungi
 - Plants
 - Protists
- Consumers**
 - Primary - Feed on producers
 - Secondary - Feed on primary consumers
 - Tertiary - Feed on secondary consumers

The Ecosystem

- Primary** - Feed on producers
- Secondary** - Feed on primary consumers
- Tertiary** - Feed on secondary consumers

Energy Levels & Energy Transfer

Energy flows from producers to consumers. Producers capture energy from the sun and transfer it to primary consumers, which then transfer it to secondary consumers, and so on.

Classification of Ecosystems

- Biomes** - Major types of floral and faunal assemblages of an area based on temperature and rainfall patterns
- Terrestrial Biomes**
 - Tropical Rainforest** - Found in warm, wet areas
 - Savanna** - Found in warm, semi-arid areas
 - Temperate Deciduous Forest** - Found in temperate regions
 - Temperate Coniferous Forest** - Found in temperate regions
 - Boreal Forest** - Found in cold, high-latitude regions
 - Tundra** - Found in cold, high-latitude regions
- Aquatic Biomes**
 - Marine** - Found in saltwater environments
 - Freshwater** - Found in freshwater environments

Biome Changes by Altitude or Latitude

As altitude or latitude increases, the climate becomes colder and drier, leading to different types of vegetation and animal life.

Biomes: Areas of Transition

Some biomes overlap, creating areas of transition between them.

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Reviews

*Merely no words and phrases to describe. I really could comprehend almost everything using this created e pdf. Your daily life period will be change once you full reading this ebook.
(Mr. Ladarius Stoltenberg)*

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