

Ecology: Study Guide

Raven/berg, Environment, 3/e



An **organism** is an individual.

A **population** is a group of individuals that live in the same area, can interbreed, and share the same gene pool.

A **community** is composed of all the different populations of species that live in a given area.

An **ecosystem** is a collection of all the organisms that live in a particular area along with their nonliving, physical environment.

- **Abiotic**— An ecosystem has a set of environmental or non-living factors that define what will live there. These are called abiotic factors. For example: water, temperature, light, air, soil type, topography.
- **Biotic**- anything that is living. For example, all plants and animals of an ecosystem.

A **biome** is a group of ecosystems that have similar climates and dominant communities.

A **biosphere** is a portion of Earth that contains all ecosystems.

Niche

This is the role an organism plays in its habitat, not just where it lives, but how it functions in that community. Many similar species may share a habitat but no two species can occupy the same niche. When niches overlap competition will result. For example, rabbit and a deer may compete because they both are herbivores.

Species interactions

Symbiosis – a relationship between 2 species that live in close association.

Parasitism – One organism feeds on another (the host). The host is usually harmed but not killed.
Ex. Dogs and fleas.

Mutualism – Symbiotic relationship when both species benefit.

Ex. Cleaner fish removing parasites from large predator fish.

Commensalism – Two organisms live in close association with each other.

One organism is helped by the association while the other is neither helped nor harmed.

Ex. orchids and trees, birds nesting in trees.

Predation

A predator feeds off other organisms but doesn't live on or in them, unlike parasites. Many predator/prey adaptations arose by co-evolution.

Predator/Prey Dynamics

Predators affect the population size of their prey, but as the number of prey decreases so does the number of predators. The relationship is called a predator-prey cycle, and it shows how each regulates the population of the other in a natural setting. Problems can occur when populations are not controlled. This may be due to introducing a new species that has no natural predator. Some populations may also die off due to a lack of resources. Understanding population growth is important as each population impacts others within an ecosystem.



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Table of Contents Modern Biology Introduction To Ecology Study Guide

1. Understanding the eBook Modern Biology Introduction To Ecology Study Guide
 - The Rise of Digital Reading Modern Biology Introduction To Ecology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Introduction To Ecology Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Modern Biology Introduction To Ecology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Introduction To Ecology Study Guide
 - Personalized Recommendations
 - Modern Biology Introduction To Ecology Study Guide User Reviews and Ratings

- Modern Biology Introduction To Ecology Study Guide and Bestseller Lists
- 5. Accessing Modern Biology Introduction To Ecology Study Guide Free and Paid eBooks
 - Modern Biology Introduction To Ecology Study Guide Public Domain eBooks
 - Modern Biology Introduction To Ecology Study Guide eBook Subscription Services
 - Modern Biology Introduction To Ecology Study Guide Budget-Friendly Options
- 6. Navigating Modern Biology Introduction To Ecology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Introduction To Ecology Study Guide Compatibility with Devices
 - Modern Biology Introduction To Ecology Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Introduction To Ecology Study Guide
 - Highlighting and Note-Taking Modern Biology Introduction To Ecology Study Guide
 - Interactive Elements Modern Biology Introduction To Ecology Study Guide
- 8. Staying Engaged with Modern Biology Introduction To Ecology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Introduction To Ecology Study Guide
- 9. Balancing eBooks and Physical Books Modern Biology Introduction To Ecology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Introduction To Ecology Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modern Biology Introduction To Ecology Study Guide
 - Setting Reading Goals Modern Biology Introduction To Ecology Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modern Biology Introduction To Ecology Study Guide
 - Fact-Checking eBook Content of Modern Biology Introduction To Ecology Study Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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