

Population Ecology

biotic/abiotic factors $\Rightarrow$ response: acclimate, regulate, conform, migrate, torpor, etc.
fundamental niche = range of factors/resources a species could use
realized niche = actual use of potential environment
uniform dispersion = evenly spaced
random dispersion = unpredictable spacing
clumped dispersion = aggregate in patches

Logistic Growth



K-selection = sensitive to population density
r-selection = maximizes r (reproductive rate)
density independent = pop. density does not affect birth/death rate
density dependent = $\uparrow$ pop. density $\Rightarrow$ $\downarrow$ birth rate / $\uparrow$ death rate

Species Richness and Diversity

species richness: # of different species in a community
species diversity: # & size of each population in a community
relative abundance: proportion of different species in a community
dominant species: most abundant species w/ highest biomass
keystone species: has pivotal ecological role/niche

Interspecific Interactions

Competitive Exclusion Principle
2 species can't survive in the same ecological niche: fundamental/realized

Interspecific Interactions (cont)

Predation
 $\pm/\pm$: adaptations: cryptic/aposematic coloration, Batesian/Müllerian mimicry
Symbiosis
-parasitism: $\pm/\pm$, endo & ecto
-mutualism: $\pm/\pm$, obligate vs facultative
-commensalism: $\pm/0$ interaction

Community Disturbance

primary succession: colonization by pioneer organisms (bacteria/algae/lichens/moss) in a virtually lifeless area to form soil
secondary succession: colonization of an area where the existing community was cleared but soil is intact

Learning

habituation: loss of responsiveness to stimuli w/o new info
imprinting: formation of permanent long-lasting response to an individual during sensitive period
spatial: landmarks, cognitive maps
associative: classical/operant conditioning
cognitive: awareness, reasoning, judgment $\rightarrow$ problem solving

Social Behavior

cooperation: behavior done as a group
agonistic: aggressive behavior
dominance hierarchies: dictate social position of an animal in a culture
territoriality: behavior to defend an area from others
altruism: $\downarrow$ individual's reproductive fitness, $\uparrow$ fitness of colony

Chemical Cycles

Water: evaporation, condensation, precipitation, runoff/transpiration
Carbon: photosynthesis & respiration, burning fossil fuels
Nitrogen: fixation: free nitrogen $\Rightarrow$ NH_4^+
nitrification: $\text{NH}_4^+ \Rightarrow$ nitrates/ates
denitrification: nitrates $\Rightarrow$ N_2
decomposition: organic matter $\Rightarrow$ ammonia

Animal Behavior

Proximate Cause: how a behavior occurs/is modified
Ultimate Cause: why behavior occurs in context of natural selection
Fixed Action Pattern: highly stereotypic behavior that is unchangeable and carried to completion
Sign Stimulus: external cue that triggers FAP
exchanged within a species = releaser
Communication: visual (waggle dance), chemical (pheromones), tactile, & auditory (birdsong)
Kinesis & Taxis: change in activity in response to stimulus; oriented movement toward/away from stimulus

Ecosystem Energy Flow



bottom-up model: influence from low $\Rightarrow$ high
top-down (trophic cascade) model: influence from high $\Rightarrow$ low
biological magnification: $\uparrow$ trophic level = $\uparrow$ accumulated toxin concentration



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Table of Contents Biology Unit 6 Ecology Answers

1. Understanding the eBook Biology Unit 6 Ecology Answers
 - The Rise of Digital Reading Biology Unit 6 Ecology Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Unit 6 Ecology Answers
 - 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 an Biology Unit 6 Ecology Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Unit 6 Ecology Answers
 - Personalized Recommendations
 - Biology Unit 6 Ecology Answers User Reviews and Ratings
 - Biology Unit 6 Ecology Answers and Bestseller Lists
5. Accessing Biology Unit 6 Ecology Answers Free and Paid eBooks
 - Biology Unit 6 Ecology Answers Public Domain eBooks
 - Biology Unit 6 Ecology Answers eBook Subscription Services
 - Biology Unit 6 Ecology Answers Budget-Friendly Options

6. Navigating Biology Unit 6 Ecology Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Unit 6 Ecology Answers Compatibility with Devices
 - Biology Unit 6 Ecology Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Unit 6 Ecology Answers
 - Highlighting and Note-Taking Biology Unit 6 Ecology Answers
 - Interactive Elements Biology Unit 6 Ecology Answers
8. Staying Engaged with Biology Unit 6 Ecology Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Unit 6 Ecology Answers
9. Balancing eBooks and Physical Books Biology Unit 6 Ecology Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Unit 6 Ecology Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Unit 6 Ecology Answers
 - Setting Reading Goals Biology Unit 6 Ecology Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Unit 6 Ecology Answers
 - Fact-Checking eBook Content of Biology Unit 6 Ecology Answers
 - 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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