# Cheatography

# AP Bio Unit 10 Cheat Sheet by NoelleEvelyn via cheatography.com/168075/cs/38411/

Mating behaviors		
Permuncious	No strong pairs	
Monogamous	one male + one female	
Pologymy	1 Individual, multiple partners	
Coloration and I	Mimicry	
Aposmetic	Prey use to avoid predatation, warning colors	
coloration		
Cryptic	Prey use to avoid predatation, camoflague	
coloration		
Batesian	Nontoxic mimics toxic	
Mimicry		
Mullerian	2 or more dangerous species with similiar warning	
Mimicry	coloration, more known	

Relationships	
Interspecific	Between species
Competitive exclusion	two species competing for same resources can't coexcist
Explotation	One species benefits, other harmed

Water Cycle	
1.	Evaporation
2.	In aptmosphere as water vapor
3.	Forms clouds
4.	Falls
5.	Runoff absorbed
Human impact:	Reduce abailibility, cause pollution by agriculture and urbanization

## Dispersion





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Nitrogen cycle		
1.	Nitrogen gas converted to usable form by nitrogen-fixing bacteria, other bacteria convert to nitrates which are taken up by plants through the roots	
2.	Animals consume plants, acquire nitrogen in body	
3.	When animals die, nitrogen goes into soil and is reused	
Human Impacts:	Nitrogen fertilizers, leads to eutrophical and water polution	

Phophorous Cycle		
1.	Found in rocks	
2.	Plants take up through roots	
3.	Animals consume, die, return, phosphorous gets locked in rocks	
Human impact:	Mining releases large amounts of phosphorous	

Plants	
Dormancy	Inactivity or slow metabolism triggered by enviro- nment
Hormones	Auxins and cytokines play role in plant develo- pement
Trophism	Plants grow in response to particular stimulus
Photo Periarosm	Plants able to see changes in day lengths

Organisms uses	
Biorem- ediation	Use of organisms to remove pollutants
Biological augmen- tation	Addition of organisms to ecosystem to enhance its function (ex. nitrogen-fixing bacteria increase plant growth)

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**Climate vs Weather** 

### Stimulus response

Kinesis Nondirectional response to stimulus, activity level aranges in response to intensity.

# Fixed Action Patterns Fixed innate, stereotyped, behavior sequences that are

action triggered by specific environmental cues. patterns Sign Specific environmental cues Simulus

## Ultimate vs Inate Evolution

Ultimate	Focuses on evolutionary history and behavior of trait
Inate	Genetic + physiological basis

Definitions		
Ecology	The study of organisms and their interactions with the envirionment	
Biotic	Living; plants, animals, bacteria	
Abiotic	Non-living: temperature, sun, water, soil, rocks, weather	

## Species movement

Species	Adding a species to areas where it was previously
Transplant	absent to see if dispersal is a key factor or limiting
	distribution, must survive and reproduce to be
	sucessful
Dispersal	Movement away from high population density or origin,
	contributes to distribution

# BiomesTundraColdSavannaDesertTemperate Broadleaf forestIndiana, ArkansasTropicalMost diverse, by equatorTemps are warmer at equatorColder at poles

	Weather	Shorter period of time
	Climate	Statistical changes over time (temp, percipitation, sunlight, wind)
	Climate change	Long-term shift in teperature and weather patterns caused by human activities especially burning of fossil fuels
Ì		
	NEP	
	Definition	difference between total CO2 absorbed by photosynt- hesis and released by respiration
	Definition	difference between total CO2 absorbed by photosynt- hesis and released by respiration singk
	Definition + -	difference between total CO2 absorbed by photosynt- hesis and released by respiration singk releasing. loosing
	Definition + -	difference between total CO2 absorbed by photosynt- hesis and released by respiration singk releasing. loosing
	Definition + - j	difference between total CO2 absorbed by photosynt- hesis and released by respiration singk releasing. loosing

Eutrophication		
Eutrop-	Body of water becomes enriched with nutrients =	
hication	excessive plant growth and death of fish	

Limiting I	Nutrient
Limiting nutrient	Nutrient in short supploy, limits growth of organisms
Carbon C	Cycle
1.	CO2 taken in by plants in photosynthesis (some carbon transformed to soil)
2.	Plants and animals die, carbon returned to soil, stored for long time or released into aptmosphere through respir- ation, decomposition

Human Burning of fossil fuels

impact:

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NICHES	
Fundamental	Potential
Realized	Actual environment
Ecological	Role organism fills in ecosystem
Temporal Part	itioning
Temporal Part Temporal Partitioning	itioning Species that occupy similar niches reduce compet- ition by using at different times

### **Species Diversity**

opooloo Dirolohy	
Richness	number of different species present
Abundance	number of individuals of each species

### Dispersion

### Survivorship Curve



Density dependent vs independent			
Density dependent	Affect population size, effects increase as population increases		
Density indepe- ndent	Abiotic, significant impact on population regaur- dless of size		

Learning	
Imprinting	Organism deveopes strong attatchment to first item it discovers
Associated Learning	Organism associates stimulus with response
Operant conditioning	Organism associates behavior with new and or punishment and adjust accordingly
Cognition	Mental process inviolved in perception, learning, memory and problem solving

#### **Animal Behavior** Behavior Study of ecological and evolutionary causes of Ecology behavior in organisms. Competition Organisms competing Resource Division of resources to avoid competition partitioning Mutualism Both organisms benefit Commen-One animal benefits one is unaffected. salism Associated with conflict between individuals Agonistic Behaviors (fighting, threatinging...)

Definitions	
Bioaccumu- lation	Increase of toxins in food web by building up in in in individual organism.
Biomagnif- ication	Retained substance becomes more concentrated at each level.

# Primary productivity GPP= NPP+RR

### **Altruistic behaviors**

Altruistic behaviors	Benefit others at cost to individual
Hamilton's rule	Predicts altruistic behaviors through evolution
Kin selection	Explains altrustic behaviors



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