Living World

Biomes:

Biomes are large regions of the world with distinctive climate, wildlife and vegetation.

Terrestrial biomes: Tropical, boreal, temperate, grasslans, deserts, arctic tundra and alpine

Aquatic Biomes:

Freshwater: Lakes, rivers and wetlands

Marine Biomes: Estuary, oceans and coral reefs

Where fresh and marine water mix

Temperature and light varies on depth

Produces a large amount of the world's oxygen

Current flows in 1 direction

Has permafrost

Made from corals

Warm during the day and cold at night

Populations



A group of individuals of the same species, living in a shared space at a specific point in time. Population may vary depending on season.

Factors affecting population size







Stable population?

births + immigration = deaths + emigration

Population Distribution

The way individuals are dispersed within their habitat.

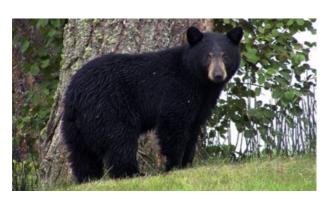
Clumped, uniform and random











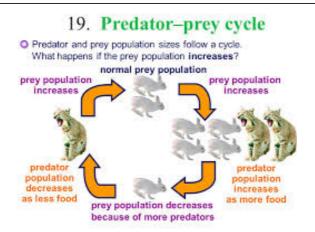
Ecological Factors

an aspect of a habitat that will affect the organisms living there.

Biotic	Abiotic	Limiting factor
Living- predation		Affects environment negatively

Biological Cycles

Population of a species in an environment varying due to the predator/prey relationship.



Communities

A set of populations of different species that share the same habitat.



Biodiversity:

- 1) # of different species
- 2) relative abundance (average # of each species)
- 3) total number of organisms in ecosystem









Interactions in a Community

- 1. Competition
- 2. Predation (parasitism)
- 3. Mutualism
- 4. Commensalism

Examples:

In winter, moose and deer look for the same food		
A hummingbird builds its nest in a tree		
A louse feeds on a dog's blood		
People do volunteer work		
A carnivorous plant feeds on small insects		

Ecosystems

A community of living organisms interacting with one another and with the nonliving components in their habitat.

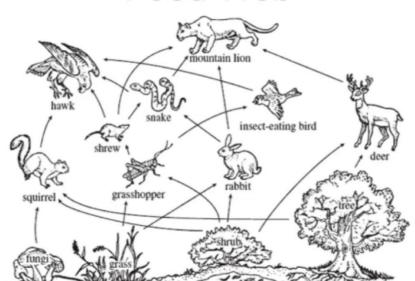


Trophic Relationships

Feeding connections among living organisms in an ecosystem

Producers	Consumers	Decomposers

Using trophic levels to create food chains and webs



Food Web

Biomass

The mass of all living things in an environment.

Natural vs Human disturbances











