Ecological Niche: the function a species serves in its ecosystem

includes: what it eats what eats it how it behaves

Learning Goal: to describe energy flow within ecosystems

Ecological Niche: the function a species serves in its ecosystem

includes: what it eats what eats it how it behaves

e.g. Rabbit:



Ecological Niche: the function a species serves in its ecosystem

includes: what it eats what eats it how it behaves

-grass, leaves -foxes, coyotes -borrows, hides in shade

e.g. Rabbit:



Types of Consumers:
Herbivore: eats plants
Carnivore: eats other animals
Omnivore: eats both plants and animals
Scavenger: eats the remains of other organisms
Decomposer: eats decaying matter to return its minerals to the soil for producers to use again

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herbivore carnivore omnivore scavenger

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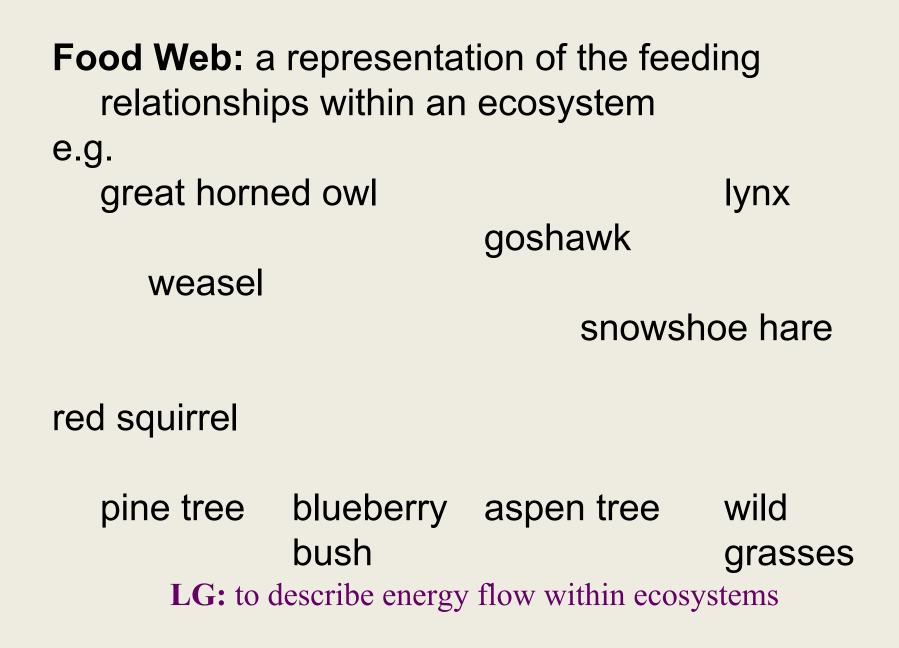


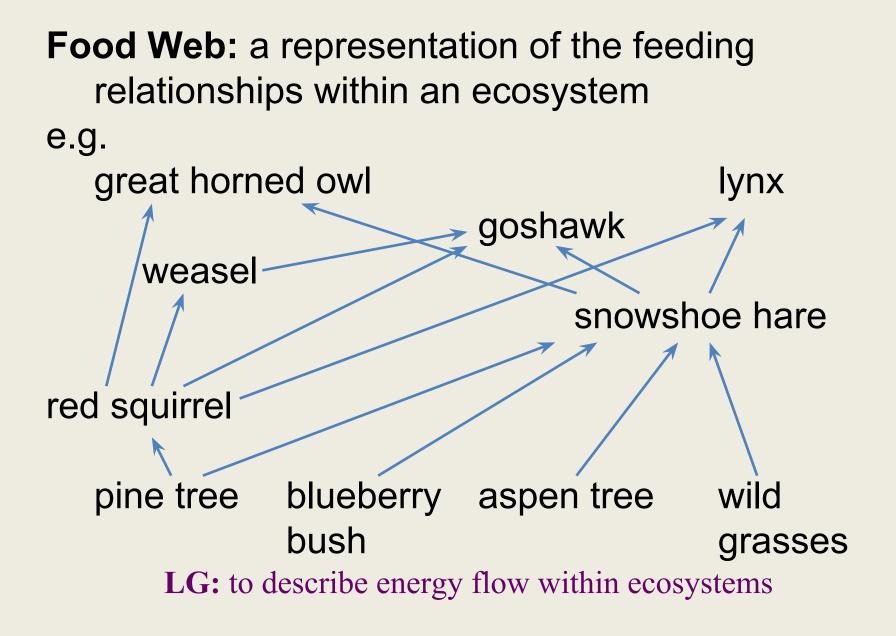
Food Chain: a sequence of organisms, each feeding on the next, showing how energy is transferred from one organism to another



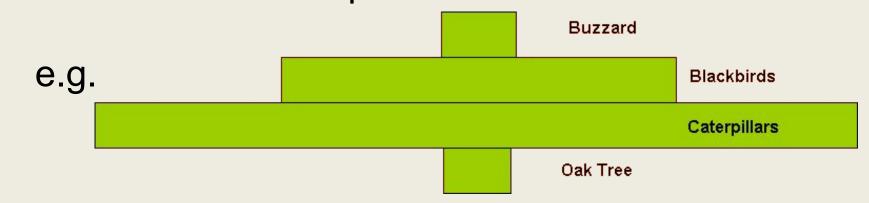
Trophic Level: the level of an organism in an ecosystem depending on its feeding position along a food chain

fourth trophic level (top carnivore) goshawk e.g. (tertiary consumer) third trophic level weasel (secondary consumer) red squirrel second trophic level (herbivore (primary consumer) first trophic level pine cone (producer) LG: to describe energy flow within ecosystems





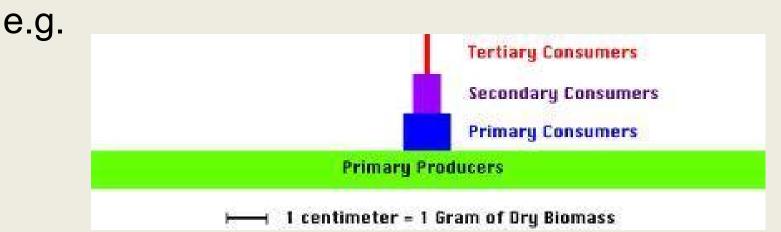
Ecological Pyramid: a representation of energy, numbers, or biomass relationships in ecosystems Pyramid of Numbers: total number of individuals at each trophic level



-in pyramids of numbers, it often does not look like a normal pyramid shape.

Ecological Pyramid: a representation of energy, numbers, or biomass relationships in ecosystems
 Pyramid of Numbers: total number of individuals at each trophic level
 Pyramid of Biomass: the dry mass of living

things in each trophic level



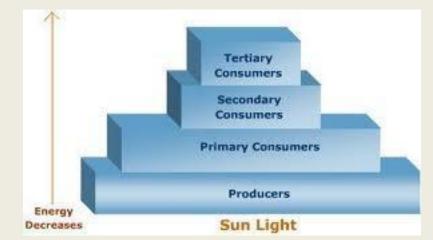
Pyramid of Energy: the total energy passed from one trophic level to the next

e.g.



Pyramid of Energy: only 10% of the energy gets passed up to the next trophic level the rest is:

- i. used up carrying on day to day activities
- ii. contained in tissues unusable by a predator (e.g. fur, bones, hooves)



ENERGY FLOWS ONE WAY!!