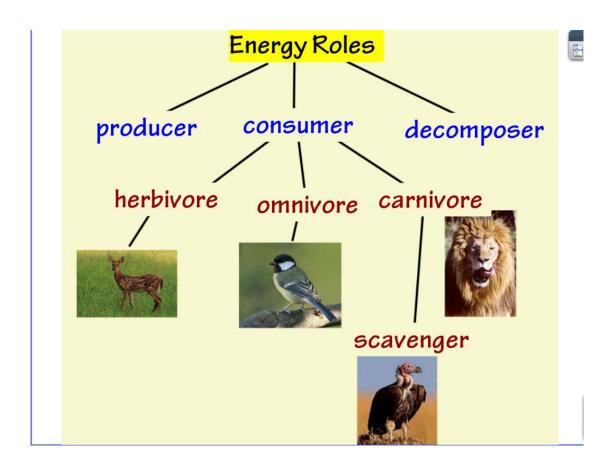
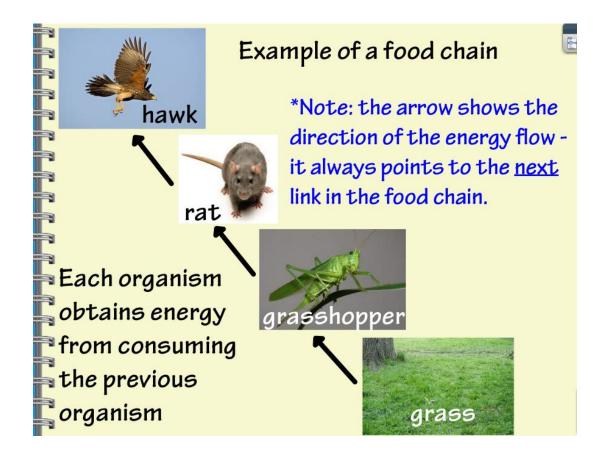
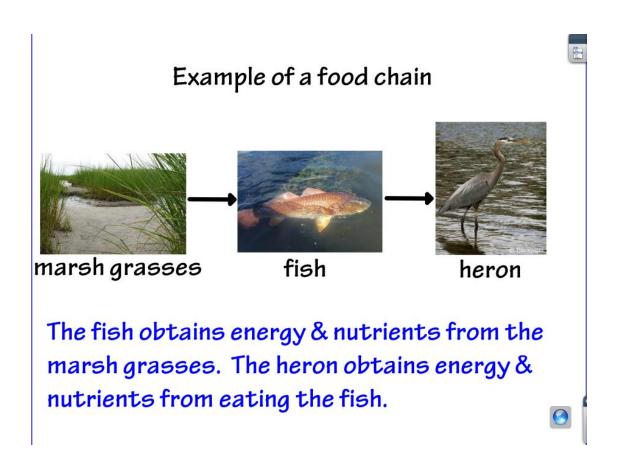
Notes on Food Chains and Food Webs

Producers, consumers, and decomposers describe how organisms make or consume food.

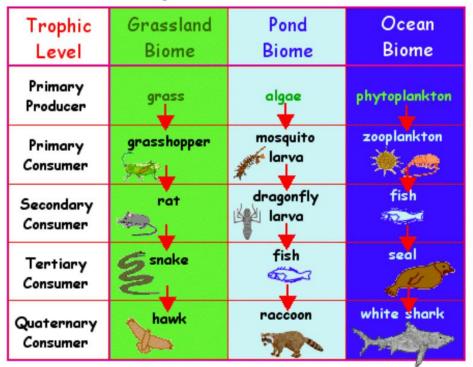
Consuming food gives us ENERGY that we need to carry out daily activities. We can track how energy moves throughout an ecosystem through the use of food chains and food webs.

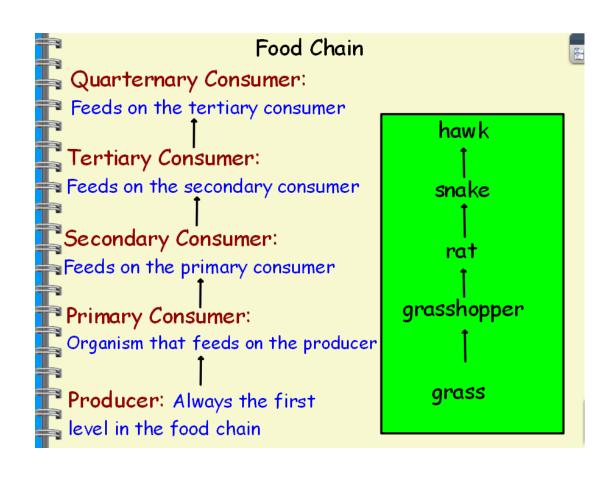


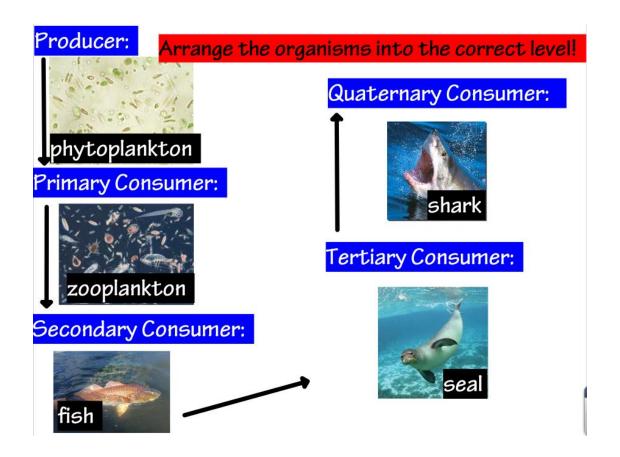


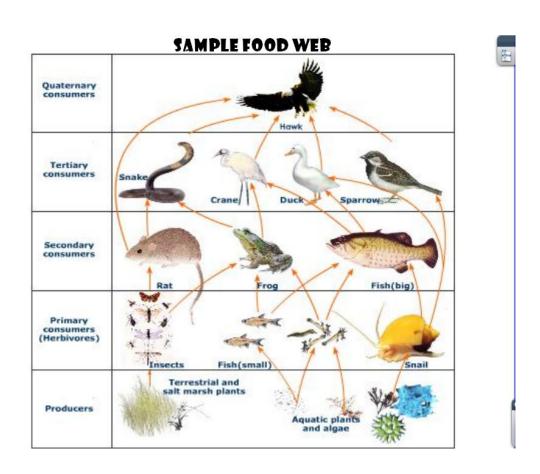


Sample Food Chains









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WHAT DIFFERENCES DID YOU SEE BETWEEN THE TWO TYPES OF CHARTS?

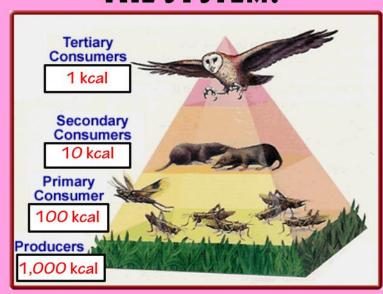
Trophic	Grassland	Pond	Ocean
Level	Biome	Biome	Biome
Primary Producer	grass	algoe	phytoplankton
Primary	grasshopper	mosquito	zeeplankten
Consumer		larva	
Secondary	rot	dragenfly	fish
Consumer		larva	
Tertiony Consumer	& snake	fish	seal
Quaternary Consumer	hawk	raccoon	white shark



LET'S SEE IF YOU CAN PLAY....

THE FOOD CHAIN GAME!

WHAT'S HAPPENING TO THE ENERGY AS IT TRAVELS THROUGH THE SYSTEM?



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Energy Role:

 determined by how an organisms gets energy from its environment E

Ex: producers, consumers, decomposers

Producer:

- an organism that makes its own food
- captures sunlight and turns it into usable energy
- Examples: trees, grass, phytoplankton Consumers:
 - any organsism that feeds on other organisms
 - Different types:
 - herbivore (eats only plants)
 - carnivore (eats meat)
 - omnivore (eats plants and meat)
 - scavinger (eats dead organisms)



■ Ex: you, me, birds, insects, zooplankton)

Decomposers:

- break down dead materials and return them to the environment
- Ex: bacteria, slime molds, mushrooms

Food Chain:

- one organism eats another and gets energy from that relationship.
- different than a food web.
- must start with a producer
- then to...
 - primary consumer (eats producers)



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- secondary consumer (eats primaries)
- tertiary consumer (eats secondaries)
- quaternary consumer (eats tertiaries)

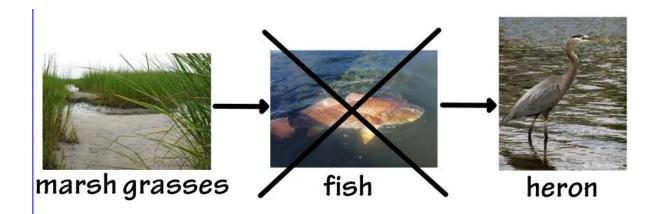
Food Web:

- shows the flow of energy through an ecosystem.
- has many overlapping food chains within it.
- all organisms in a food web are connected

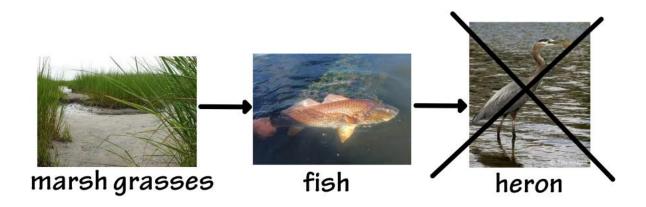
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Energy Pyramid:

- shows the amount of energy passed from one organism to the next within a food web.
- at each level, there is less energy available than the level before it.



What would happen if the fish population suddenly decreased?



What would happen if the heron population suddenly decreased because they moved to a different habitat?