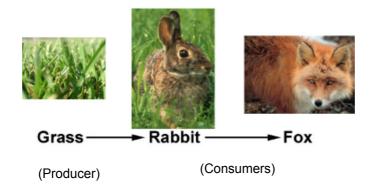
Chapter 3- Energy and Ecosystems

LESSON 2- HOW IS ENERGY PASSED THROUGH AN ECOSYSTEM?

ENERGY TRANSFER

Each time something eats something else, food energy is transferred from one organism to another. The transfer of energy between organisms is called a food chain.



Ecosystem- All the organisms in an area and the environment in which they live.

Niche- an organism's role or job in an ecosystem.

Nov 8-8:43 AM

TYPES OF CONSUMERS

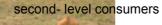






Click here to play a game

Carnivore- an animal that eats mainly other animals.





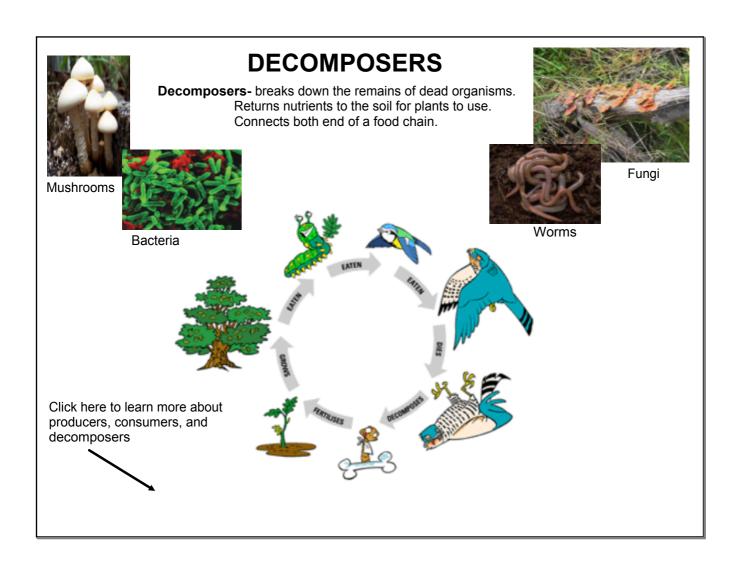


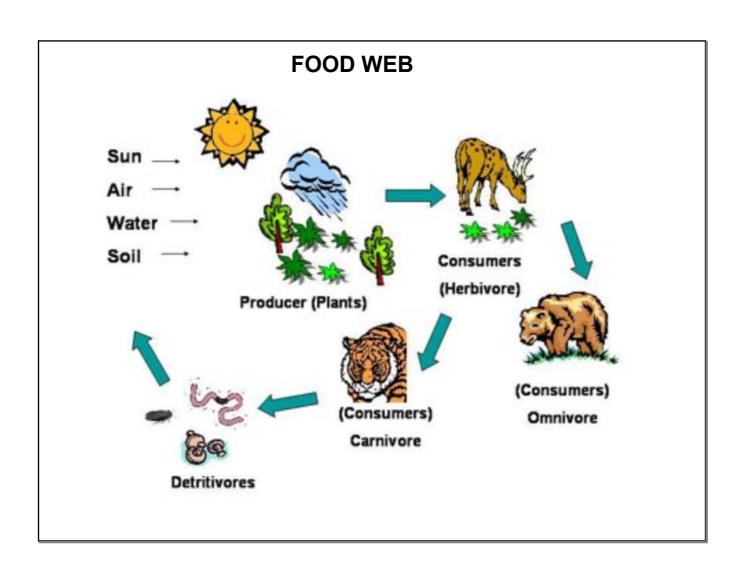


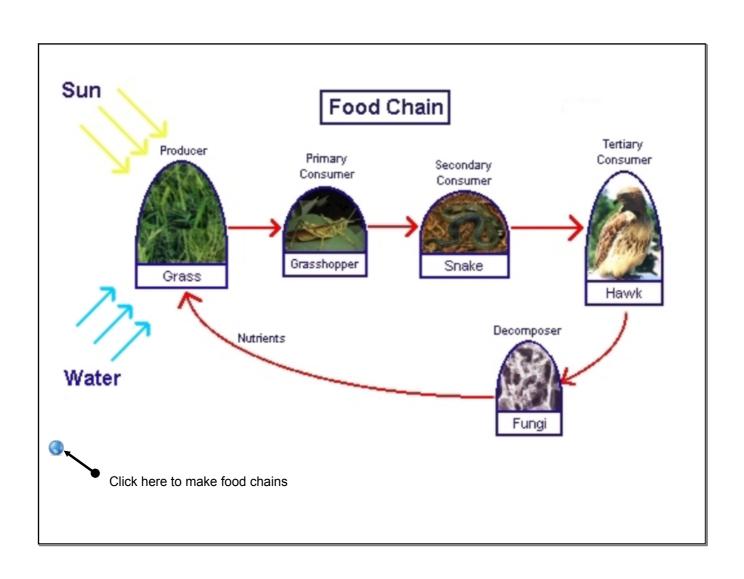
Omnivores- eat both plants and other animals
Can be first or second- level consumers.









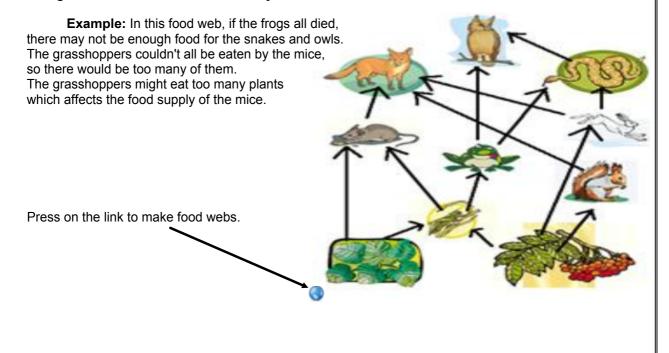


FOOD WEBS

A **food web** shows the relationship between many different **food chains**.

*Most animals eat more than one kind of food and can be a part of several food chains.

* Because organisms in an ecosystem depend on each other, a change in the number of one kind of organism can effect the entire ecosystem.

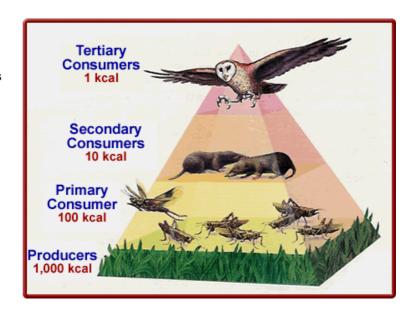


ENERGY PYRAMIDS

Energy Pyramids show the amount of energy that is passed from one level of a food chain to the next.

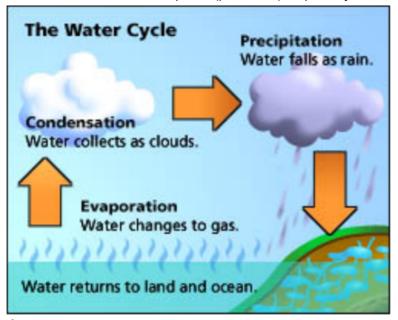
Most energy at each level is used by the organism at that level for its own life functions. About 90% of the energy is used by the organismand only 10% is passed on to the next level.

Because so little energy is passed on, there needs to be many producers and there can only be a few organisms near the top of the pyramid.

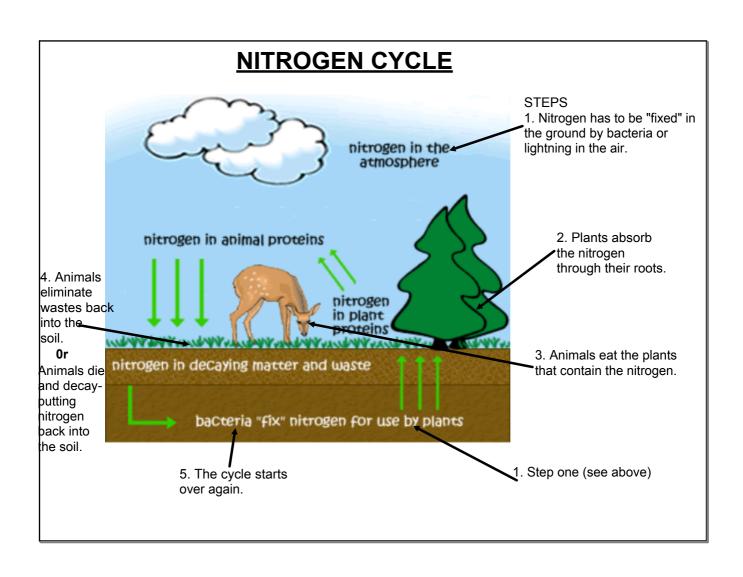


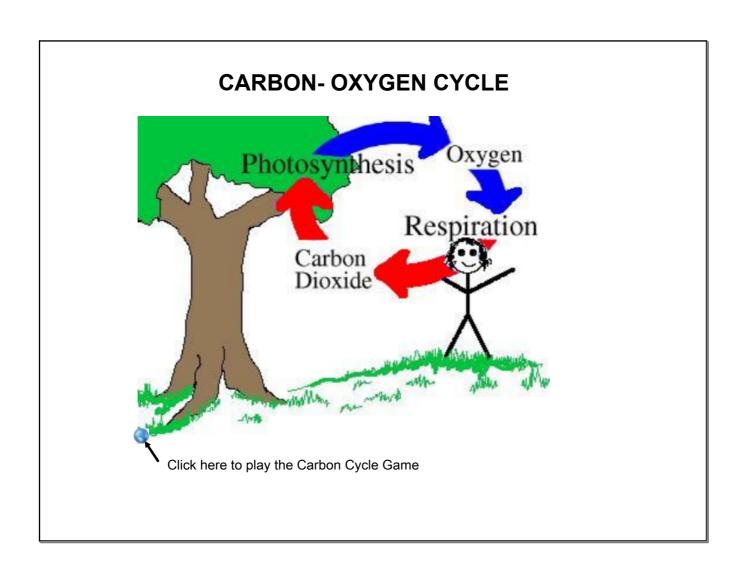
NATURAL CYCLES

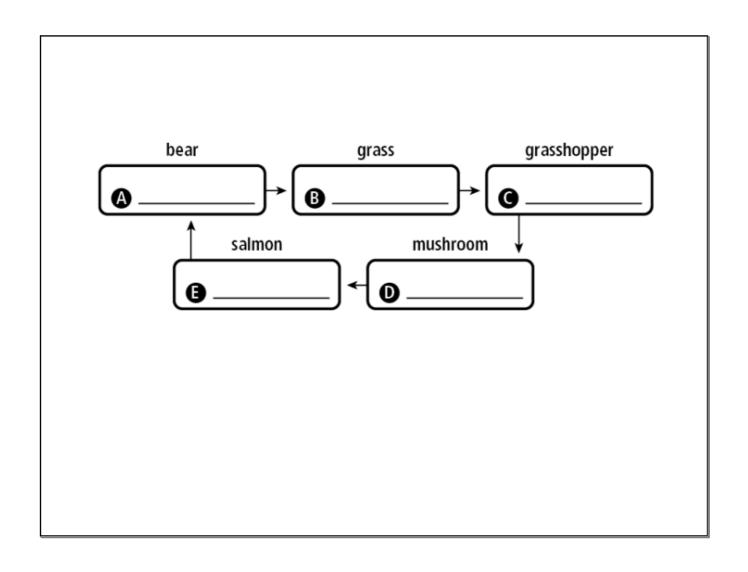
WATER CYCLE- Provides water to plants (producers) for photosynthesis.



Click here to view Water Cycle Animation







water cycle animation.mp4

 $The _Cycling_of_Nutrients_in_the _Forest_Ecosystem__Producers__Consumers__and_Decomposed and a superior of the produced and the produced and$