

Notes Day 1 "Ecology"

•The study of how living things interact with each other and their environment.

•Population

-A group of organisms, _____ that live in a certain area.

•Community

-All of the _____ living in a certain area.

•Ecosystem

-One or more communities _____ with the environment.



•Biome

-An area with a distinct climate and specific types of plants and animals

•Biosphere

-The outermost crust of the earth where _____.

Energy Flow

•Sunlight is the main source of energy for life on earth

•Energy flows from one organism to another and eventually ends up as heat.

Autotrophs

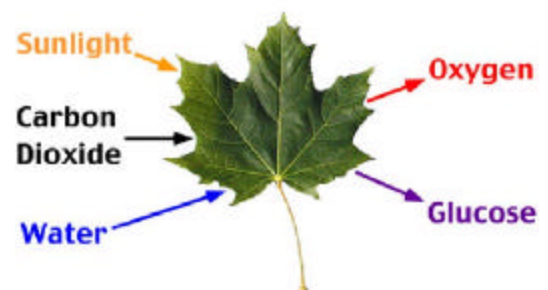
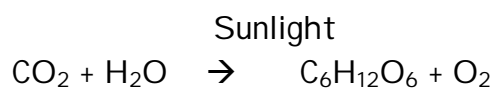
•Organisms that _____

•Called _____

•Example: Plants

Photosynthesis

•The process used by plants to change water and carbon dioxide with energy from sunlight into glucose (food) and oxygen.



Heterotrophs

- Organisms that eat _____
- Do not make their own food
- Called _____
- Example: Animals



4 Types of Consumers

- Herbivore - Eats plants
 - Examples: Rabbits, deer
- Carnivore - Eats other _____
 - Examples: Lions, wolves, fox
- Omnivore - Eats _____
 - Examples: Humans, bears
- Decomposers - Eats _____ organisms
 - Examples: Bacteria and fungus

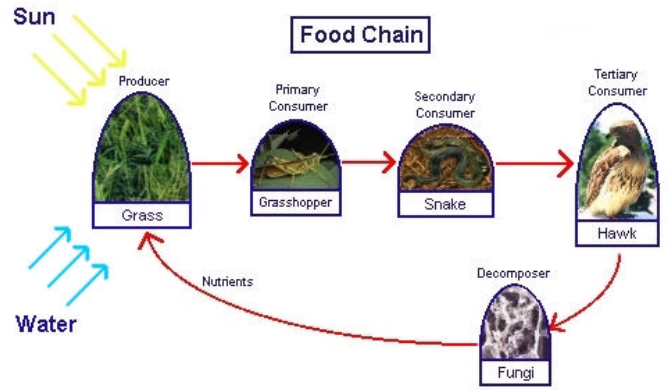
Feeding Relationships

- Producers
 - Make _____ molecules (food)
- Primary consumers
 - Eats _____
- Secondary consumers
 - Eats _____ consumers
- Tertiary Consumers
 - Eats secondary consumers



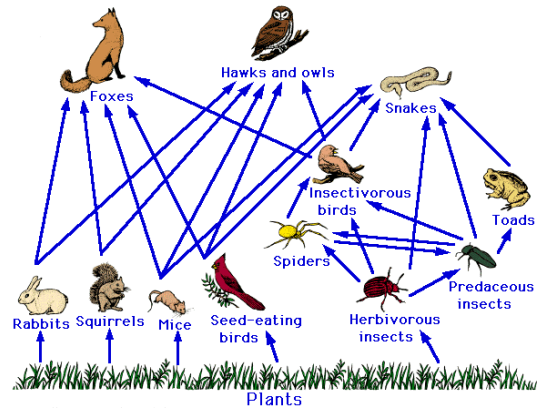
How a Food Chain Works

- All energy begins with the sun!!!
- A food chain shows _____ in a part of the community.
- The arrows show the direction the _____.



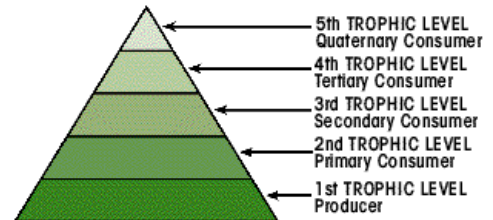
How a food Web Works

- Food webs are all the _____ in a community connected together.
- Shows who eats who and how the energy moves in the whole _____.



Trophic levels

- Each step up in a food chain or web is a new _____.
- Each consumer depends on the level below it for _____.



Ecology Pyramid

- Shows the relative amount of _____ at each level.
- Each level gets smaller as you go up the pyramid
 - Only about _____ of the energy is passed to the next level.
 - There is more available energy at the bottom than at the top
 - There are more organisms at the bottom than at the top.

