Chapter 2 Notes

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Beans Beef Vergies Spices Hotalog Bun
(Plant) (Com) (Plant) (Plant)
Sun Gross Sun Sun
Sun

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- obtains its energy and interacts w/
 - 1. Producer gets energy through photosynthesis (makes its own food)
 - 2. Consumer anything that eats something to get energy
 - 3. Decomposer breaks down things to set energy

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CONSUMER TYPES:

- HERBIVORE eats only plants
- CARNIVORE eats only meat
- OMNIVORE eats both plants and meat
- SCAVENGER eats already dead organisms (ex: roadkill)

 CONSUMER - eats things to get energy

T (15th Love Consumer)

- PRIMARY CONSUMER-eats

 plants or other type of producer

 (200 Love) Consumer
- SECONDARY CONSUMER eats primary consumer

-> (3rd Lavel Consumer)

TERTIARY CONSUMER - eats secondary consumer

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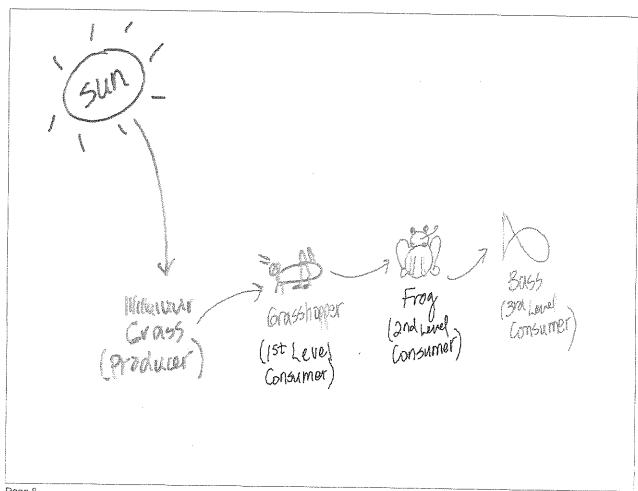
DECOMPOSER - break down the remains of living things and return them to the earth (ex: worms, bacteria, mushrooms)

- The SUN is the ultimate energy source for everything in the world
- starts out every food chain
- * Sun gives its energy to PRODUCERS

(Producers - make their own food through photosynthesis)

Blue Book - p.198

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How to make a food chain or web:

- All energy starts with the SUN
- Energy moves from the sun to the PRODUCER
- The arrows move FROM the energy source TO the organism the energy goes to
- Organisms can eat more than one thing (food web)

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LEVELS:

- SUN ultimate energy source
- Producer plant
- 1st Level Consumer (primary level) eats plants
- 2nd Level Consumer (secondary level)
 - eats an 1st level plant eater
- 3rd Level Consumer (tertiary level) eats the 2nd level
- A decomposer breaks ANY of those things down

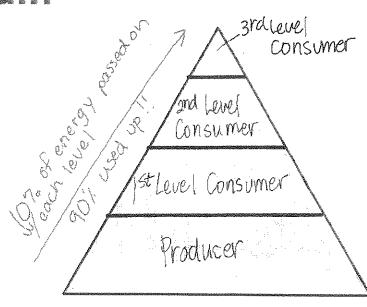
FOOD CHAIN - shows the path of energy throughout an ecosystem - shows one possible diet of organisms

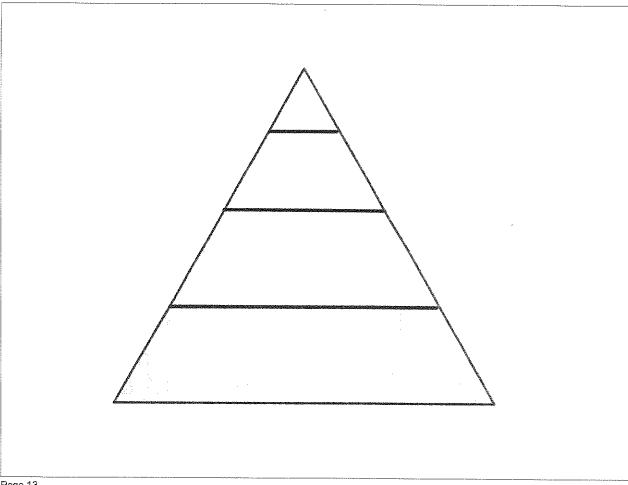
FOOD WEB - overlapping food chains (because an organism doesn't eat the same thing every single time)

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Energy Pyramid = shows how energy moves through a food chain

* most energy available at producer level





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CLIMATE = the average weather patterns in an area over time ----**Determined by temperature and** precipitation

BIOME - region that has a particular climate that contains certain types of plants and animals

BIOMES:

- Desert
- Deciduous Forest (leaves that fail)
- Grasslands
- e Tundra
- e Tropical Rainforest
- · Taiga / Coniferous Forest (pines)
- Freshwater
- Marine (salt water)

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Threatened = without help, or something Changing, the species could become endangered

Endangered = the population is so low, that if nothing is done to help it, it could become extinct

Extinct = the organism no longer exists in the wild or captivity

Reasons for organisms being threatened / endangered:

- Loss of habitat = # Pollution

- Hunting
- Disease
- Harsh weather
- Competition with other species
- Natural disasters

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By having one organism taken out of the big picture of things, it affects ALL organisms (all food webs will eventually be affected)

this affects:

BIODIVERSITY = the wide variety of life on Farth

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