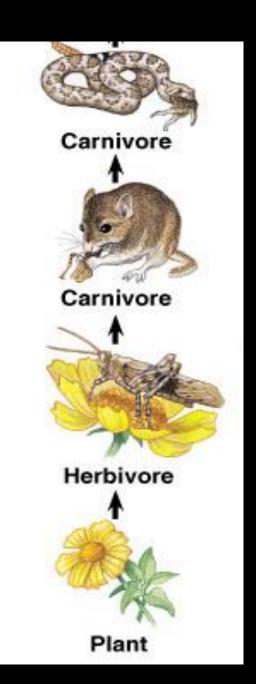
Energy Paths



Learning Objectives

 Trace the flow of energy through living systems

 Compare and contrast food web and food chain



Tertiary consumer

Secondary consumer

Primary consumer

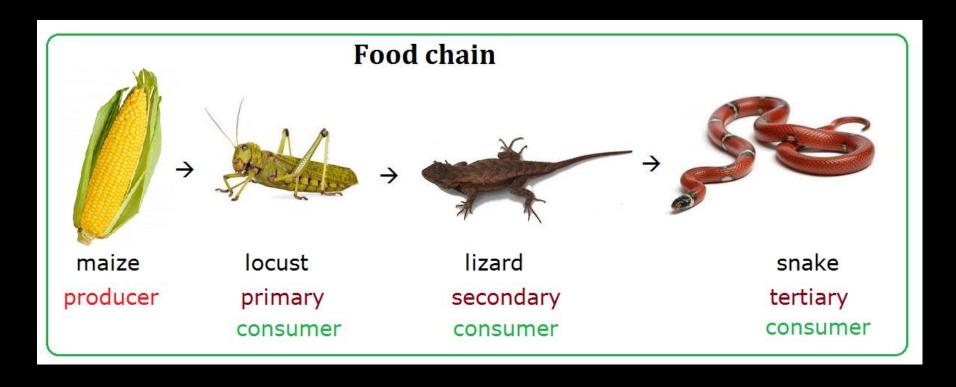
Producer

Energy Paths

Three ways to illustrate energy flow:

Food Chain
Food Web
Food (Energy) Pyramid

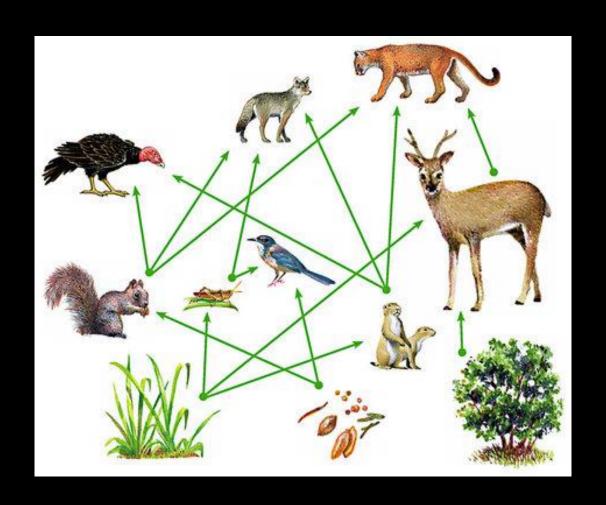
Food Chain



A food chain shows the path of energy from one organism to the next.

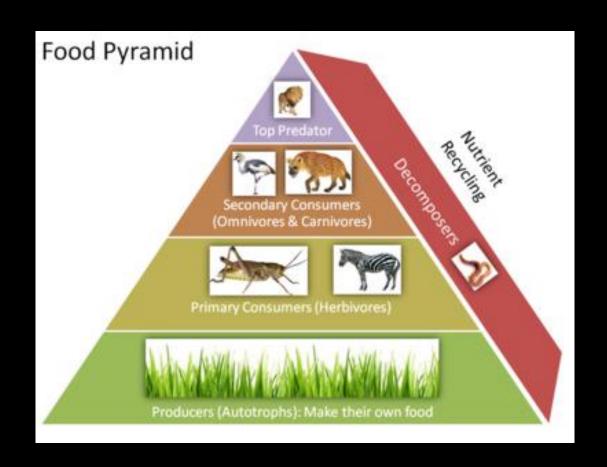
Arrow points in the direction that the energy is flowing

Food Web



A food web shows all feeding relationships in an ecosystem (network of many food chains)

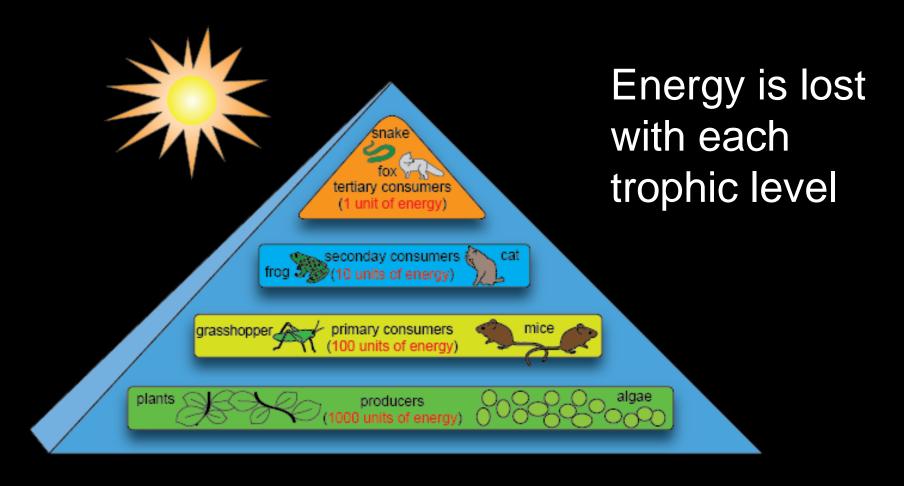
Food (Energy) Pyramid



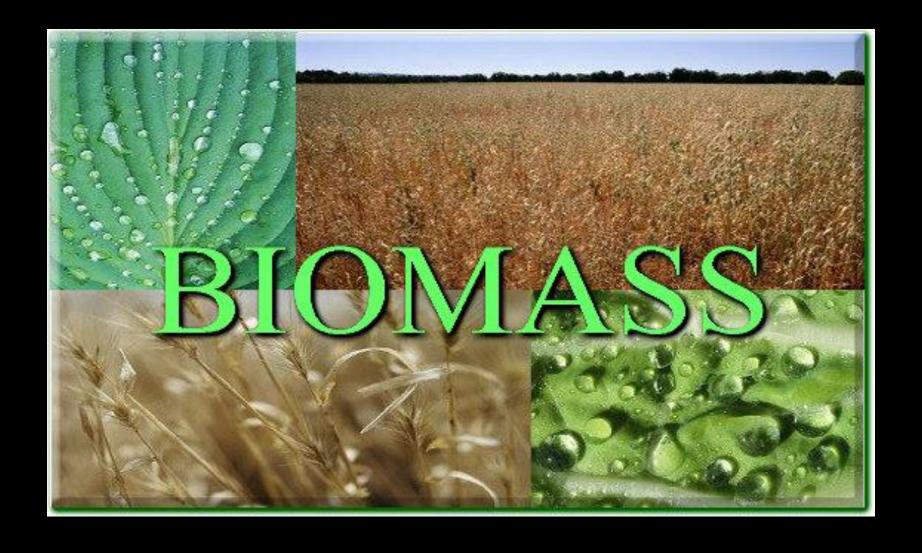
A level of the food pyramid is called a trophic level

Food chains/webs can be shown as a food pyramid. Producers at bottom, consumers at upper levels

Trophic Levels



- ~ 90% is released to the environment as heat
- ~ 10% of the energy is used by organisms



Biomass - all of the biological material in an ecosystem

YouTube Food Webs & Energy Pyramids

Stop Here

