

# Valers' Notes

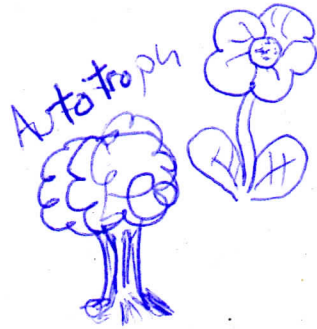
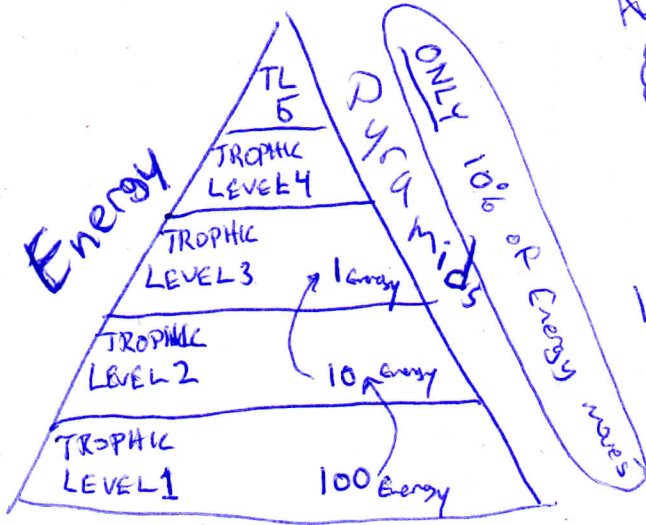
# Ecology

The Study of:

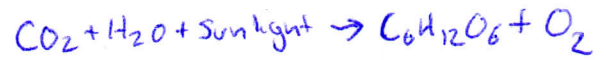
Living Things and the non-living things around them

Biotic → Alive → Reproduces, consumes Energy, grows

Abiotic → Not Alive



Producers Make their own food  
Photosynthesis



Heterotroph



Consumers Take Energy from others

Herbivores

↳ Eat Plants

Flat Teeth



Carnivores

↳ Eat Animals

Sharp Teeth

- Trophic Level
- 1 = Primary Producers
  - 2 = Herbivores (Primary Consumers)
  - 3 = Carnivores (Secondary Consumers)
  - 4 = Carnivores (Tertiary Consumers)
  - 5 = Carnivores = Apex Predator

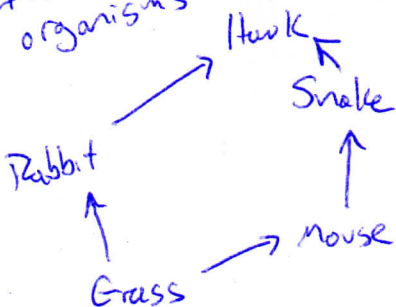
Lower trophic levels have more energy & larger populations

Higher trophic levels have less energy + smaller populations

## Species Interactions

### Food webs

Interdependence of organisms for energy



Predator - Prey

Eats - Gets Eaten

### Competition

↳ organisms trying to get the same resources

### Symbiosis

Parasitism +/-

Mutualism +/+

Commensalism +/0