

# Ecology Vocab

**Biome**: all similar ecosystems around the world

**the "taiga" Ecosystem**: all communities & non-living things in one place  
 Defined by:  
 - Climate  
 - plants

- Cold winters
- Short summer
- needle trees

**Community**: all organisms, populations in one area, at one time

**Population**: all organisms of one species, in one place, at one time.  
 All wolves in Yellowstone now

**Organism**: a living thing



Yellowstone, Russia, Canada, N. Europe

## Community Interactions

**Predation**: one eats part or all of other  
 Predator / Prey  
 Cat + / - bunny

**Parasitism**: stealing nutrients  
 Parasite / Host  
 tick + / - dog

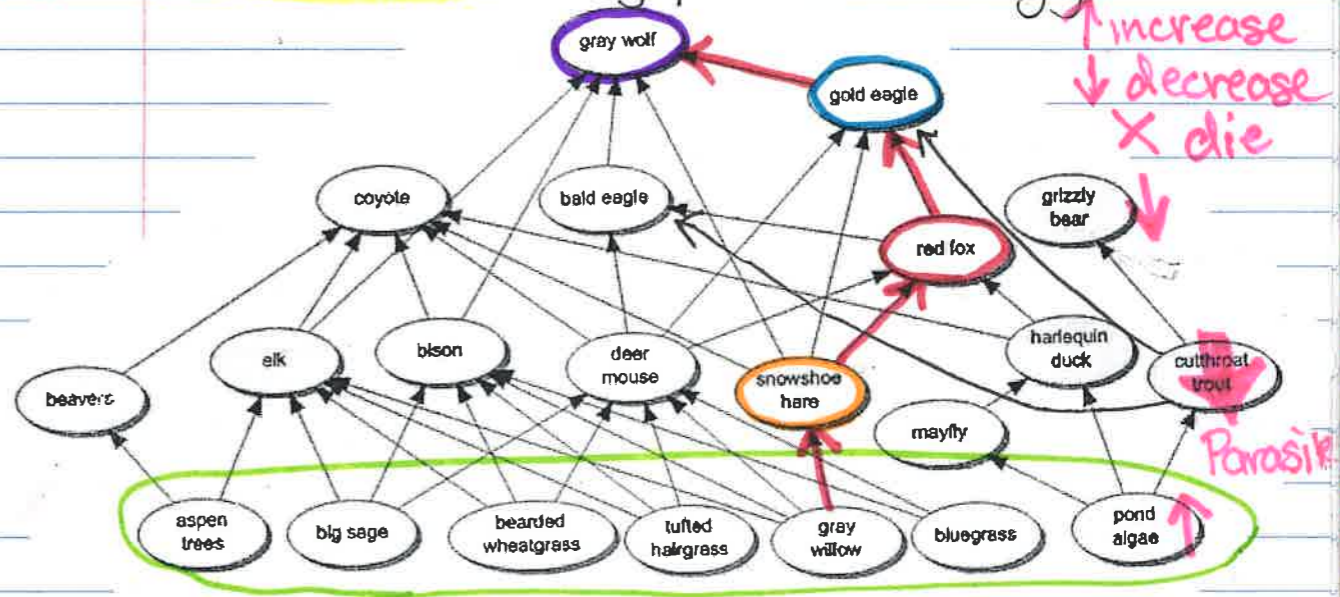
**Commensalism**: one benefits other get nothing  
 fish + / 0 lemon shark

**Mutualism**: all win!  
 Bee + / + flower

There are several ways to model energy flow in an ecosystem.

**TOO Simple** Food Chain: Willow → Hare → Fox → Eagle  
 1 path of energy → show direction energy flow

**Better** Food Webs: many paths of energy



**Producer**: Produces food from Sun's Energy

**Primary (1st)** eats producer

**Secondary (2nd)** eats 1st

**Tertiary (3rd)** eats 2nd

**Quaternary (4th)** eats 3rd

**Invasive Species**: any species introduced by humans that out-competes native