

- <u>Species</u> \rightarrow Only one type of organism



– <u>Population</u> → All members of one species that live in the SAME AREA



 $-\underline{Community} \rightarrow \text{all the DIFFERENT}$ SPECIES that live in the same area

 $-\underline{Ecosystem} \rightarrow \text{Includes both the} \\ \hline \text{community AND ABIOTIC factors}$

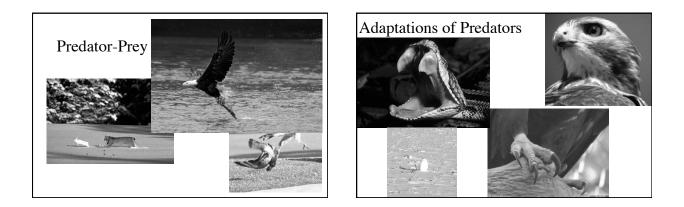


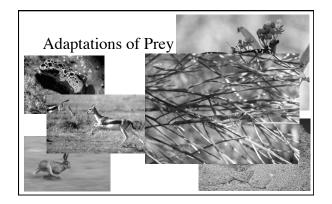
Community Relationships

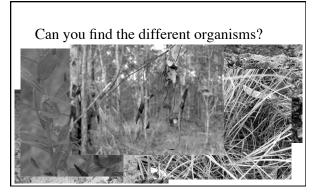
- 1. Predator-Prey
 - When one organisms hunts another and kills quickly
- 2. Symbiosis
 - Two species are closely associated to one another over a period of time
- 3. Competition
 - Species compete with one another for resources

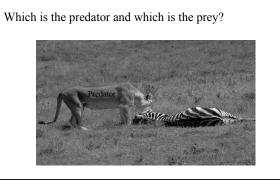


- Nature favors more effective predators (hunter)
- Nature favors more evasive prey (hunted)
- Videos:
 - Python https://www.youtube.com/watch?v=x0rk5zh7RaE
 - Eagle snatches kid: https://www.youtube.com/watch?v=Xb0P5t5NQWM









Community Relationships

• 1. Predator-Prey - When one organisms hunts another and kills quickly

• 2. Symbiosis

 Two species are closely associated to one another over a period of time. One or both benefit.

• 3. Competition

- Species compete with one another for resources

There are three types of Symbiosis

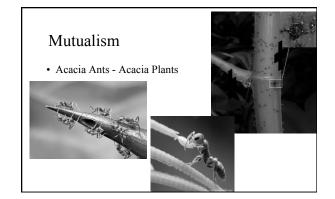
- Mutualism
 - Both organisms benefit (+/+)

• Commensalism

– One organism benefits, while the other is neutral (+/N)

• Parasitism

– One organism benefits, while another is harmed (+/-)

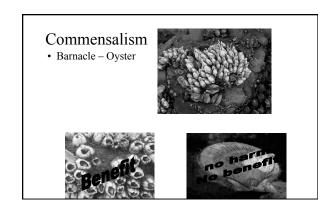


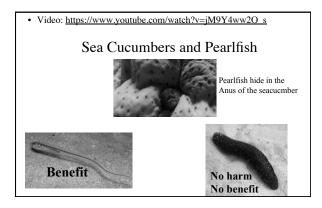


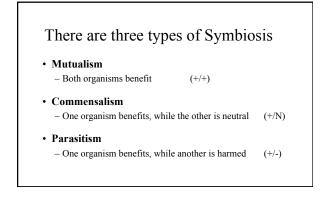


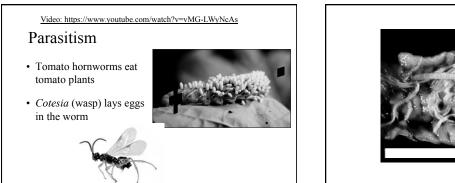
There are three types of Symbiosis

- Mutualism
 - Both organisms benefit (+/+)
- Commensalism
 - One organism benefits, while the other is neutral (+/N)
- Parasitism
 - One organism benefits, while another is harmed (+/-)











Niche

--The role (job) of an organism within its community



Niche

NO TWO SPECIES CAN OCCUPY THE SAME NICHE IN THE SAME ENVIRONMENT FOR A LONG PERIOD OF TIME...if so you get...

Community Relationships

- 1. Predator-Prey
 - When one organisms hunts another and kills quickly
- 2. Symbiosis
 - Two species are closely associated to one another over a period of time
- 3. Competition
 - Species compete with one another for resources

Competition

- A demand by two or more organisms for limited resources
 - Plants Water, Nutrients, Sunlight
- Animals Food, Shelter, Mates





