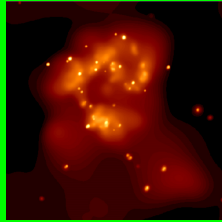


## Interactions Within Communities

The energy that fuels the Earth is the SUN

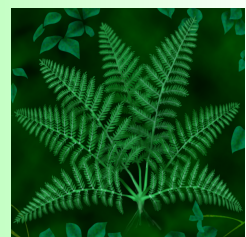


Mar 19-1:44 PM

**Producers - organisms that use outside energy sources like the sun to make energy rich molecules**

Most producers contain chlorophyll required for photosynthesis

chemosynthesis - process that creates energy rich molecules



Mar 19-1:48 PM

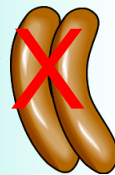
***Consumers - organisms that cannot make their own energy rich molecules.***

***They obtain energy by eating other organisms.***



Mar 19-1:56 PM

***Herbivore - vegetarians of the world***



***Carnivores - animals that eat other animals***



Mar 19-1:59 PM

**Omnivore - eat mostly plants and animals**



**Decomposer - waste and dead organisms**



for decomposers these might be served as food,  
absorbed through plant roots and consumed by  
other organisms

Mar 19-2:02 PM

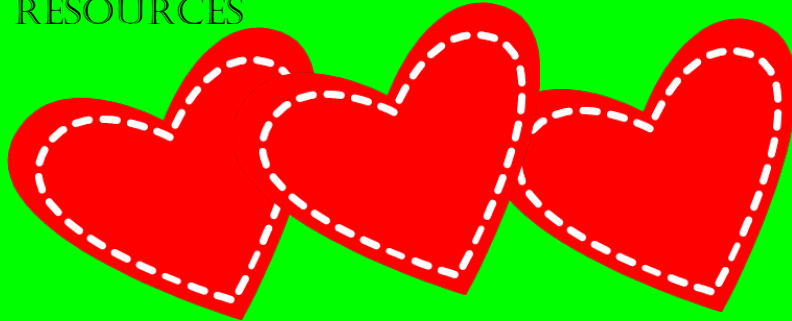
## **Food Chain - a simple model of the feeding relationships in an ecosystem**



Mar 23-9:28 AM

## **Symbiotic Relationships**

SYMBIOSIS - SPECIES THAT HAVE A CLOSE RELATIONSHIP WHERE THEY LIVE TOGETHER AND SHARE RESOURCES



Mar 23-9:34 AM

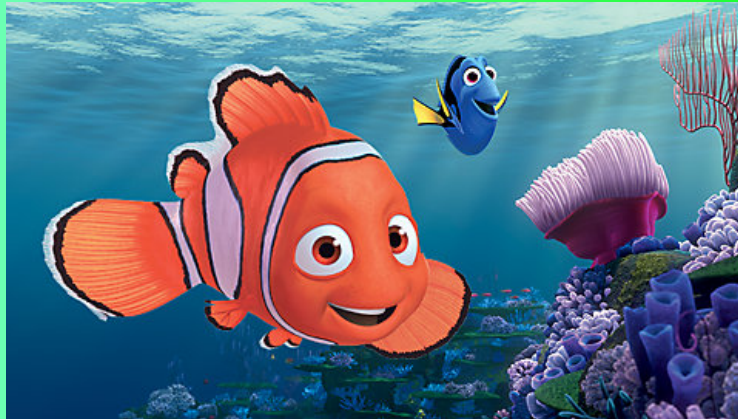
*Mutualism - a symbiotic relationship in which both organisms benefit*

\*Lichens are a result of mutualism

Mar 23-9:38 AM

Commensalism - when one organism benefits and the other is not affected

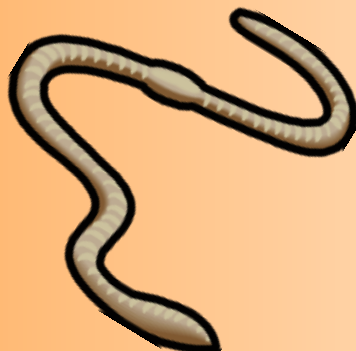
***Clown fish and sea anemones***



Mar 23-9:41 AM

PARASITISM - RELATIONSHIP WHERE ONE ORGANISM BENEFITS AND THE OTHER IS HARMED.

☆ *roundworms are parasites rob the host of nutrients*



Mar 23-9:48 AM

**One habitat might contain hundreds or thousands of species**

Each species has different requirements for survival

**Niches - an organism's role in the environment, how it obtains food and shelter, finds mates, cares for its young, and avoids danger**

Special adaptations for survival are also part of the niche

Mar 23-9:51 AM

## **Predator and Prey**

**Predators are consumers that capture and eat other consumers**

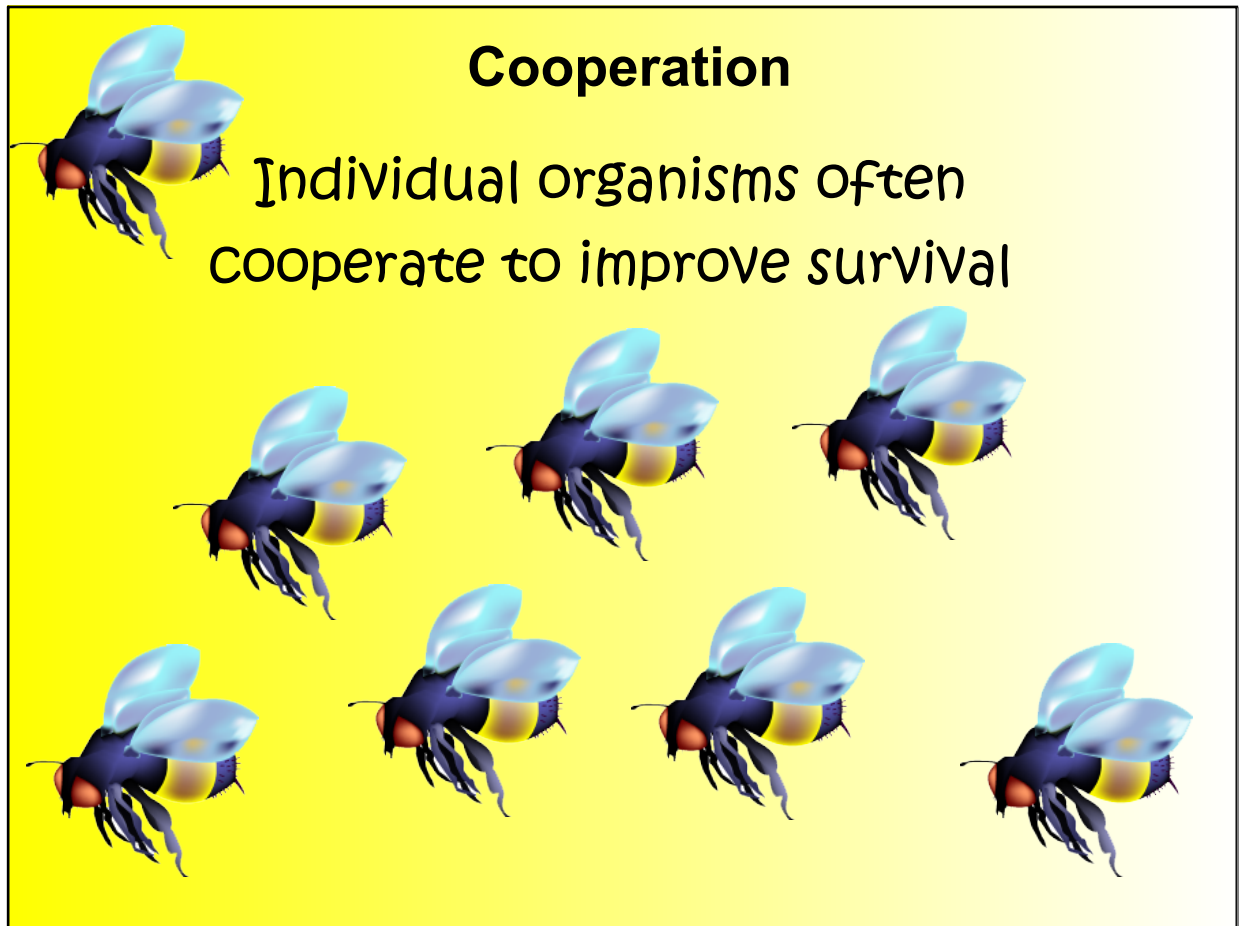


**Prey - the organism that are captured by the consumer**

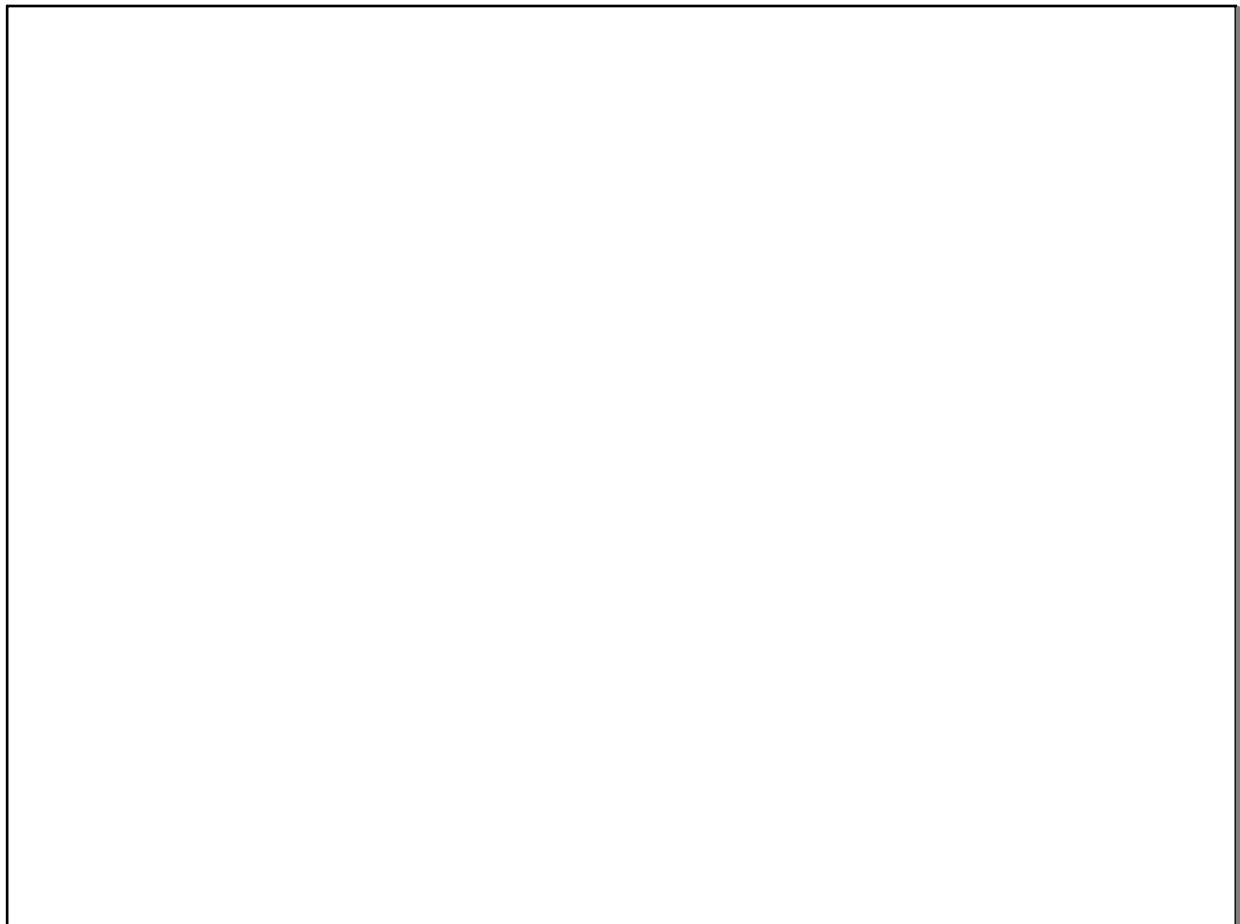
Predators limit the size of the prey's population

Allow for different species to live in an ecosystem

Mar 23-9:51 AM



Mar 23-11:31 AM



Mar 30-9:26 AM