

Predation

an act of one
organism
feeding on
another

Example: A
lion eating a
zebra

Apr 30-5:48 PM

Parasitism

- One organism benefits and the other suffers



www.fielddog.com/ftm/ticks.gif

gecko.gc.maricopa.edu/.../platyhelminthes/tapeworm.jpg

Apr 30-5:35 PM

Plant defenses

Secondary compounds- defensive chemicals in plants

The mustard plants has mustard oils. Sometimes the taste deters insects.

Apr 30-5:48 PM

Symbiosis

two or more species
living together in a
close, long-term

(relationship)

Apr 30-5:35 PM

Commensalism

- One species benefits and the other does ~~NOT~~ benefit ~~NOR~~ is harmed



www.athensguide.com/zoo/images/birds.JPG

Apr 30-5:35 PM

Certain tropic fish live inside sea anemones. Sea anemones have tentacles that sting. The clown fish have the ability to live in the sea anemones and not be paralyzed.

Nemo

Apr 30-5:40 PM

Mutualism

A relationship where both benefit



www.spacesciencegroup.nsula.edu/.../graphics/symbiosis.jpg

Apr 30-5:35 PM

Aphids are another example of mutualism. Aphids live on certain plants and eat the sucrose in the plants. Most of this honeydew runs out their anus in an altered form. Certain ants eat this honeydew that runs out the ants anus.

Apr 30-5:40 PM

Competition- when two species use the same resource

For example they could be competing for food, water, and living space.

Apr 30-5:48 PM

Niche- the functional role of a particular species in an ecosystem

This could include the food an organism eats, the space it takes up, the temperature it needs, and other factors.

This is not to be confused with habitat. A niche is an organism's pattern of living.

Apr 30-5:48 PM

Fundamental niche

the entire range of conditions an organism is potentially able to occupy within an ecosystem

all
the
Pizza
Places

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Realized niche

Bacteria

the part of its fundamental niche that a species occupies

This may only be a small part of the fundamental niche.

Page 386-387 in book

Apr 30-5:48 PM

Predation can help with competition.

For example, sea stars are predators of mussels and clams. When sea stars were removed the amount of their prey species went from 15 to 8. This is because the mussels became so powerful they took over space.

Apr 30-5:48 PM

Biodiversity

the variety of living organisms present in a community

Apr 30-5:48 PM