

## Predation

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an act of one

\_\_\_\_\_ feeding on another

Example: A \_\_\_\_\_ eating a \_\_\_\_\_.

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# Parasitism

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- One organism \_\_\_\_\_ and the other suffers



[www.fielddog.com/ftm/ticks.gif](http://www.fielddog.com/ftm/ticks.gif)

[gecko.gc.maricopa.edu/.../platyhelminthes/tapeworm.jpg](http://gecko.gc.maricopa.edu/.../platyhelminthes/tapeworm.jpg)

# Plant defenses

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Secondary compounds- defensive chemicals in plants

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

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# Symbiosis

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two or more species  
\_\_\_\_\_ together in a  
close, long-term  
\_\_\_\_\_  
(relationship)

# Commensalism

- One species benefits and the other does \_\_\_\_\_ benefit \_\_\_\_\_ is harmed



[www.athensguide.com/zoo/ images/birds.JPG](http://www.athensguide.com/zoo/images/birds.JPG)

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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.

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# Mutualism

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A  
relationship  
where \_\_\_\_\_  
benefit



[www.spacesciencegroup.nsula.edu/ .../graphics/symbiosis.jpg](http://www.spacesciencegroup.nsula.edu/.../graphics/symbiosis.jpg)

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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.

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Competition- when two species use the same \_\_\_\_\_

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

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Niche- the functional role of a \_\_\_\_\_  
species in an ecosystem

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

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

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## Fundamental niche

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the \_\_\_\_\_range of conditions an organisms is potentially \_\_\_\_\_to occupy within an ecosystem

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## Realized niche

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the part of its fundamental niche  
that a species \_\_\_\_\_

This may only be a \_\_\_\_\_ part of  
the fundamental niche.

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Predation can help with competition.

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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.

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# Biodiversity

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the variety of living organisms  
present in a \_\_\_\_\_

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