

# Decomposers

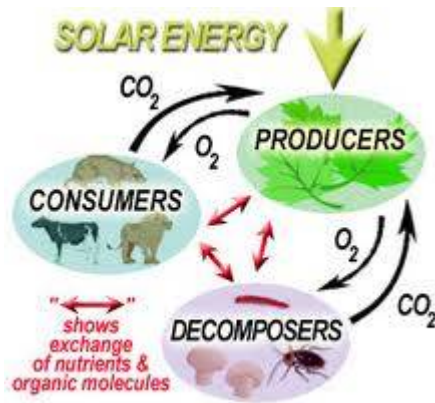
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## Natural Decomposition Process

### Introduction

We know the interaction between plants and animals through the food chain and food webs. The 'Food Web' can be divided into three groups:

- Producers - produce their own food through photosynthesis.
- Consumers – Depends on plants or animals for food.
- Decomposers - breaks down the dead organic material.



The three groups of Food web

Let's now discuss the decomposers.

Decomposers are the organisms that break down dead organisms. It is done naturally by the [decomposition](#) process. Decomposers can't make their own food and depends on other organisms for their nutrients. [Organic substrates](#) provide energy, carbon and nutrients for growth and development.

## Types of Decomposers

1. **Scavengers**- They eat dead plants and dead animals. They break the food into small pieces. Example: [Earthworms](#) (break down plants only!)



### Earthworm- The Scavenger

2. **Decomposers** – after the feed of scavengers they finish the dead organisms. Example [fungi](#). Decomposers are not like scavengers. Many we can't view them with our naked eye. They are microscopic!

## Fungi

The primary and common of decomposers of [ecosystems](#) are the fungi, the unicellular organism. [Saprotrophic](#) fungi grow as [hyphae](#) – the branching network.



### Saprophytic Fungi - Mushroom

Unlike bacteria, with the help of hyphae fungi can penetrate larger pieces of organic matter. Also the enzyme lignin present in fungi helps to decompose the organic matters. That's why fungi act as a primary decomposer in the forest land.

While eating on the dead organism fungi releases an acid to melt the organic material. After this melting gets completed, the fungi will absorb the acid and the melted material together. Fungi use the hyphae not only for reproduction and also to drain the melted material. The hyphae of two different fungi gets closer, they fuse and create new fungi! Then this new fungi once matured can mate with its parents!

## Worms

Worms are also act as the decomposer and it has many varieties. All varieties are acting as scavengers. They initiate the infection process by attacking any organism by the removal of its outer coat or skin. Then the other decomposers can easily infect the interior parts of the organism through that damaged outer coat/skin. Certain species of roundworms plays an important role in this process of decomposing the bodies of animals.



Worms

## Bacteria

The smallest living organisms but most numerous of decomposers are the Bacteria only! 90% of microbes found in a gram of soil are bacteria. Bacteria can withstand almost any environment.

Want to know more details about bacteria and decomposers? [Click here](#) to schedule a live help with an eTutor!

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## Reference Links:

- <http://en.wikipedia.org/wiki/Decomposer>
- <http://www.qrg.northwestern.edu/projects/marssim/simhtml/info/whats-a-decomposer.html>
- <http://techalive.mtu.edu/meec/module08/Decomposers.htm>
- <http://www.worsleyschool.net/science/files/decomposers/page.html>
- [http://www.youtube.com/watch?v=c0En-\\_BVbGc&feature=fvwrel](http://www.youtube.com/watch?v=c0En-_BVbGc&feature=fvwrel)

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