#### WASTE

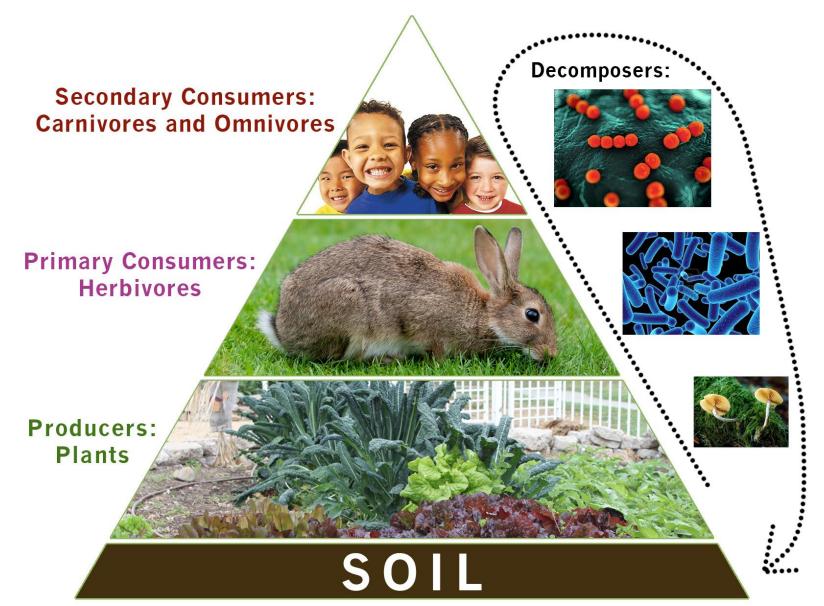
IS

FOOD

The HOT COMPOST process transforms waste materials, like dead leaves and grass clippings, into nutrients for plants.

Composting = Recycling

#### Garden Ecosystem Energy Pyramid



#### Plants are called PRODUCERS because plants make their own food through

#### PHOTOSYNTHESIS



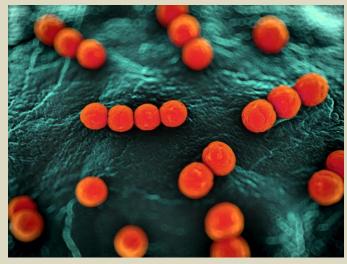
#### **PHOTOSYNTHESIS**

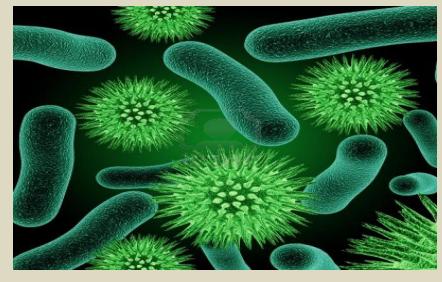
DECOMPOSERS recycle nutrients from dead plants and animals. The waste from **DECOMPOSERS** is soil nutrients used by plants.

#### DECOMPOSERS



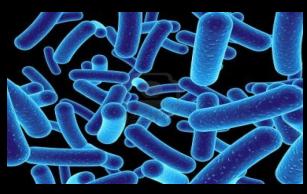


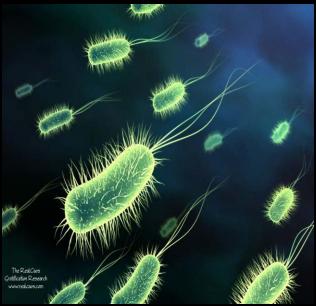


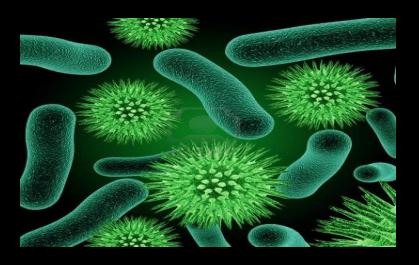


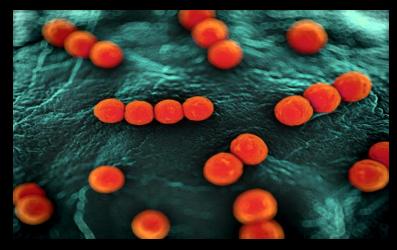


#### BACTERIA







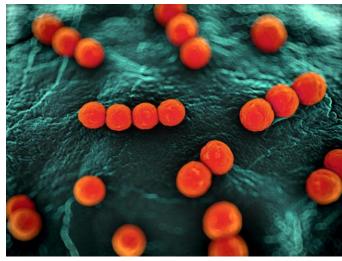


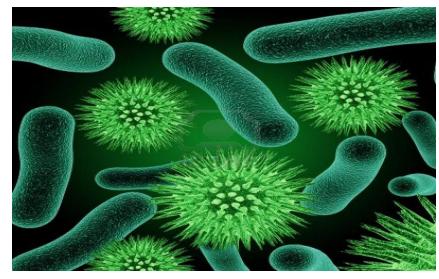
## When a plant dies and falls to the ground, it gets eaten by...

#### DECOMPOSERS!







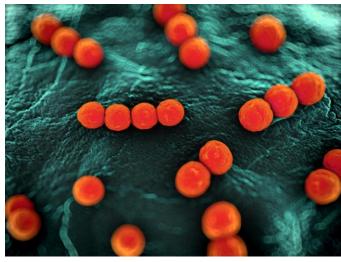


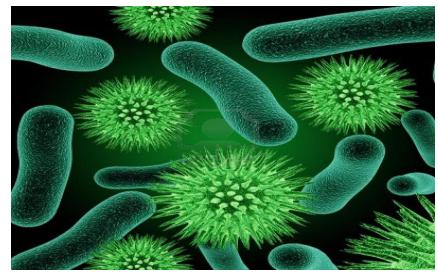
### When an animal poops, the poop gets eaten by...

#### DECOMPOSERS!







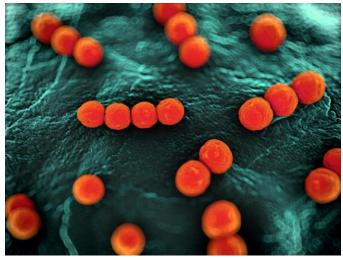


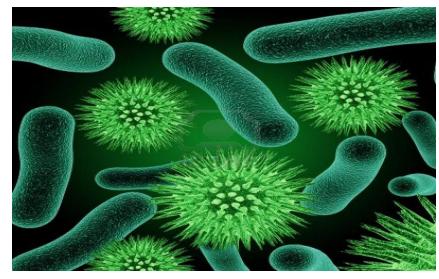
#### When an animal dies and is not eaten by another animal, it gets eaten by...

#### DECOMPOSERS!!









Decomposers eat dead materials, digest them, and recycle the nutrients back into the soil.

#### **HOW DO THEY DO THIS?**

IF THEY EAT, THEY CREATE WASTE ...

(SOMETIMES CALLED POOP!)

THE WASTE FROM DECOMPOSERS IS

NUTRIENTS FOR PLANTS.

#### The waste created by decomposers is called: -fertilizer -compost or -soil nutrients

# HOT COMPOSTING: Feeding Bacteria and Other Microscopic Decomposers

If we cannot see the bacteria and other microscopic decomposers, how do we know they are there?

## Temperature: The compost pile heats up, sometimes above 100 degrees Fahrenheit!



## Size (Volume): The compost pile gets

smaller as materials are eaten and broken down into soil nutrients



- The questions we ask:
- 1. Did our compost piles heat up?

2. Did our compost piles get smaller from beginning to end?

### Fertilizer and compost are VITAMINS for plants!

