

# FOREST BIODIVERSITY

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CLIMATE CHANGE

PRIMARY COURSE



**This is our planet Earth.  
We call it our home,  
but we are not alone!**

**People share it with other  
forms of life**

**Yes, the  
planet is alive!**





The variety of animals, plants, fungi, bacteria and other life forms in a given place is called biodiversity.

The interaction between them and their environment is what we call an ecosystem.

**The more biodiversity there is, the stronger the ecosystem is!**

**Biodiversity is very important.**

**All species work together in a super team, called ecosystem.**

**They depend on each other.**

**Forests give home to animals.**

**Animals eat plants.**

**Plants need good soil to grow.**

**Soil needs fungi to be fertilized.**

**Insects exchange pollen between plants and help them to reproduce.**



**Is biodiversity important to people?**

**Yes!**

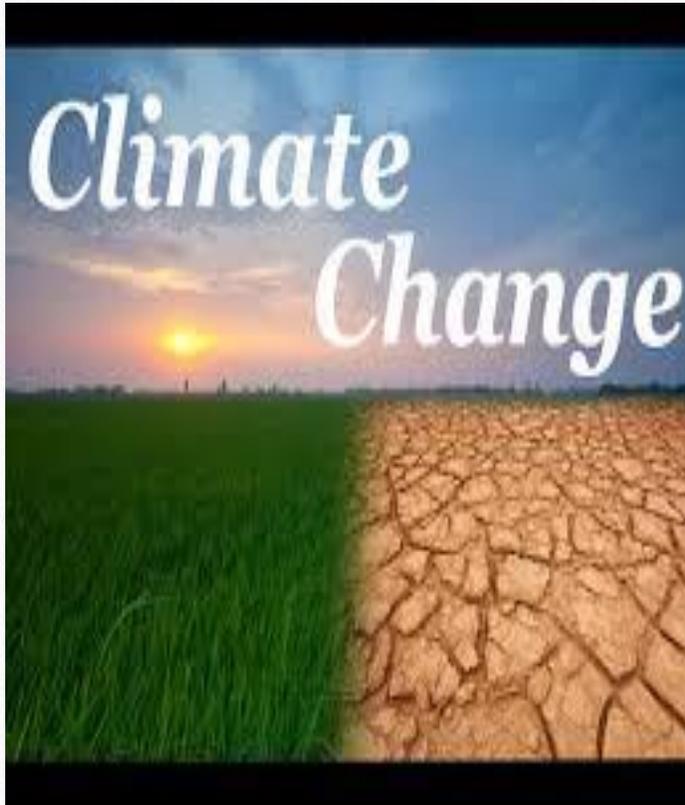
**Plants help us breath. They breath in carbon dioxide and breath out oxygen. They also give us :**

- **Food**
- **Shade**
- **Construction materials**
- **Medicines**
- **Fiber for clothing and paper.**

**The plant roots keeps water and prevent flooding.**

**Plants, fungi and worms keep soil fertile and water clean.**





Plants, animals and climate work together to keep the balance of nature.

But the the Earth`s global climate is changing.

The planet is warming up fast.

The carbon dioxide is a gas. It works to trap heat close to Earth. Are we in danger?

**Yes!!!!**



- Extreme weather: storms, floods, droughts, hurricanes
- Oceans get warmer, sea ice begins to melt.
- The global sea level rises.
- Animals that hibernate in the winter also suffer from warming temperatures.

Some of them wake up earlier. Some are not hibernating at all. They can't find enough food and starve.

- Many trees need cold winters. With warmer, drier conditions they become infected with insects, which kill the trees. Birds and small animals that lived there have to find new homes. Some of them die.

**The result is biodiversity loss and ecosystem break down.**



## What happens in the forest?

### Deforestation

People cut down trees and clear large areas of forest land.

### Effects of deforestation

➤ Soil erosion destruction.

Soils dry up because of the sun's heat. Rain washes down the soil surface and erosion happens.

➤ Water Cycle

Trees keep water in their roots. Some remains inside the plants. Some is transpired into the atmosphere. When this process is broken, the atmosphere and water bodies begin to dry out. Less water will run through the rivers. Smaller lakes and streams that take water from these larger water bodies dry up.

➤ Loss of Biodiversity

Many beautiful creatures, both plants and animals have vanished from the face of the earth.

➤ Climate Change

Plants absorb Carbon Dioxide CO<sub>2</sub> from the atmosphere and give off Oxygen. Destroying the forests mean CO<sub>2</sub> will remain in the atmosphere. Cool climates may get a lot hotter and hot places may get a lot cooler.



## Degradation

Destruction or reduction in quality of specific aspects of forests.

Forest degradation can be caused by factors such as:

➤ **Forest fires:**

Forests fires destroy a big part of the forests all over the world.

➤ **Climate Change:**

Dry conditions reduce the tree cover and dry out water bodies running through them. They force many animals to migrate and reduce the quality of forests ecosystems.

➤ **Pests and diseases**

**Degraded forests can be restored.**



## What can we do ?

- **Tell** others about the importance of the environment and how they can help save forests.
- **Restore** damaged ecosystems by planting trees on land where forests have been cut down.
- **Encourage** people to live in a way that doesn't hurt the environment.
- **Establish** clubs to protect forests and wildlife.
- **Support** any activity that will minimize damage on environment and keep the biodiversity.





**Nature loves  
you!**

**Nature cares  
about your  
future!**

**What about  
you?**

# THE PLEASURE IS MINE!

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