

ACTIVITY NO. -16: Let's conserve Biodiversity

Subject	Science
Class	X
Chapter/Unit	Management of Natural Resources
Topic	Biodiversity
Time	60 mins
Nature of Activity	Group

What will I learn (Learning Outcome)?

To explore the need to conserve biodiversity.

Skills: Analyzing and Creating

What I have to do?

To discuss the importance of maintaining ecosystems and learn about the various arguments that people make in favor of preserving the earth's biodiversity.

What do I require?

- Internet access
- Notebook
- Writing materials

What do I need to know?

Biodiversity refers to the variety of plant and animal life in the world or in a particular habitat, a high level of which is usually considered to be important and desirable.

Ecosystem refers to a biological community of interacting organisms and their physical environment.

Extinction refers to termination of a kind of organism or of a group of kinds, usually a species.

People take different approaches when giving reasons for preserving biodiversity. Some argue that biodiversity is important to ensure access to new medications, while others emphasize the importance of maintaining healthy ecosystems for recreational purposes such as fishing or camping.

➤ Teacher's Activity

Teacher will:

1. discuss the concept of Biodiversity.
2. make groups of the students and will explain the steps of the activity.
3. ensure that each student participates in the activity.
4. give pointers to students under which they will write their ideas-
 - (i) Agriculture, forestry and fisheries products are obtained from rich flora and fauna
 - (ii) Whether it is water, forests, mountains, or a mix of many ecosystems, people love the experience of being closer to nature.
 - (iii) Reduced biodiversity means millions of people face a future where food supplies are more vulnerable to pests and disease, and where fresh water is in irregular or short supply.
 - (iv) The loss of biodiversity destroys natural sources of medicine and thus undermines the right to life and health

- (v) Biodiversity has an intrinsic value because it is part of the natural world, and the conservation of species, genetic resources and ecosystems is important for the maintenance of natural ecological processes.

How will I proceed?

➤ **Students activity**

Each group of 3 students will-

1. take approximately ten minutes to browse the list of 3 endangered species and then describe in a class discussion a few of the animals they've learned about and the reasons why these animals are threatened.
2. define the words: biodiversity, ecosystem, extinction
3. discuss and list the reasons why they think biodiversity is important and why endangered animals and habitats should be protected.

What have I observed?

S.No	Reasons for preserving Biodiversity	Explanation
1.	Economic Reason	
2.	Recreational Reason	
3.	Human health	
4.	Human Rights	
5.	Intrinsic Value	

What have I learnt?

1. Dinosaurs, Dodo and Tasmanian tigers have ceased to exist. These are known as _____ animals.
2. _____ is often defined as the variety of all forms of life, from genes to species, found in earth.
3. An _____ is a community of living organisms in conjunction with the nonliving components of their environment, interacting as a system.

What am I curious to learn?

Let us create a project to show how biodiversity in an ecosystem produces a successful and sustainable system.

Let me evaluate myself

Q.1. What is biodiversity? Why is biodiversity important for human lives?

Q.2. How have human activities affected the depletion of flora and fauna? Explain

Q.3. Describe how biodiversity contributes to the sustainability of an ecosystem.

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Q.4. Explain how the removal of the species changes the biodiversity in the ecosystem.

Q.5. On a political map of India, mark the protected areas for endangered species in India.

