

Conservation of plants and Animals SUMMARY SHEET

Learner Previous Knowledge	Habitats & Adaptations; Food chains and food webs; How human activities have affected the biodiversity of different habitats	
Target Knowledge for this Topic	Biodiversity and its importance Understand what biodiversity is and why it is important; Destruction and conservation of ecosystem Find out the various factors responsible for destruction of the ecosystem and how can we conserve it; Endemic species Investigate and find out the various endemic species and also about how the data gets recorded for all the endangered species; identify endangered species in the state. Evaluate reasons for endangerment and efforts (and impact of efforts) towards conservation that are being currently taken up.	
Learning Goals		
<i>More Complex Learning Goal-</i> Students will be able to deduce the causes and effects of destruction of ecosystem and suggest ways to conserve it		
<i>Target Learning Goal-</i> Students will be able to describe how and why destruction and conservation of ecosystem occurs.		
<i>Simpler Learning Goal-</i> Students will be able to state causes and effects of deforestation.		
Period No.	Lesson Objectives	Teaching Learning Materials Required
1	Describe impact of deforestation.	- Board and markers - Worksheet 1
2	Discuss about the different ways of conservation of forest and wildlife.	- Board and markers - Worksheet 2
3	Prepare presentation of the topic in their chosen method	Chart papers/art sheets for groups as required
4 ,5 and 6	Present their understanding about different topics given to them.	Chart papers/art sheets prepared by the groups

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Lesson Plan 1

Lesson Objectives

At the end of this lesson students will be able to:

- Describe impact of deforestation

Teaching Learning Materials required

- Board and markers
- Worksheet 1

Details of Teaching Learning Experience

Seating Arrangement: - In groups of 4 or 5

Lesson Beginning <u>Time:</u> 5 min <u>Purpose:</u> • Generate interest	<u>Introduction of Topic</u> • Introduce the topic by asking students the meaning of deforestation. Pose questions such as: ○ What is deforestation? ○ How do the forests help the planet? ○ What consequences can you foresee if the forest coverage on the planet becomes less? ○ How the forest habitat gets affected if trees are cut on mass scale?
Lesson Middle <u>Time:</u> 20 min. <u>Purpose:</u> • Develop conceptual understanding	• Distribute worksheet 1 to all the students. • Let there be a whole class discussion in which the answers of the worksheet are discussed. • Ask students to state different methods through which the deforestation can be reduced. • Ask them to state different ways through which the awareness can be spread among public. • Encourage students to find new and unique ways to do that.

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Lesson End <u>Time:</u> 5 min <u>Purpose:</u> • Finish up	<u>Finish Up</u> • Wrap up the class by encouraging the students to find some creative method of reducing deforestation and spreading awareness.
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Worksheet 1**Skill: Analytical Thinking**

I. The statements on effects of deforestation given below are all mixed up. Put them in correct order.

- a) New trees grow slowly and there are less species.
- b) Trees are cut.
- c) Soil erosion occurs frequently.
- d) It is hard for rains to be soaked in the soil so flooding occurs.
- e) Soil is now less fertile and it is dry.

II. Observe the picture. What inference can you draw from it?



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Lesson Plan 2

Lesson Objectives

At the end of this lesson students will be able to:

- Discuss about the different ways of conservation of forest and wildlife.

Teaching Learning Materials required

- Board and markers
- Worksheet 2

Details of Teaching Learning Experience

Seating Arrangement: In groups of 4-5

Lesson Beginning <u>Time:</u> 5 min <u>Purpose:</u> • Activate prior knowledge	• Pose the following questions to the students: a. Forest is called a dynamic entity. Why? b. How will animals are affected due to deforestation? • They may collate all the relevant points.
Lesson Middle <u>Time:</u> 25 min. <u>Purpose:</u> • Develop conceptual understanding	• Distribute worksheet 2 to the students. Let them discuss the questions given in their groups. • Let each group put forward understanding about the different pictures. • Divide the class in 6 groups. Allot the following topics among the groups. 1. Flora and Fauna, Endangered and endemic species, RED data book 2. National Parks 3. Wildlife Sanctuary 4. Biosphere reserves 5. Recycling process, Reforestation 6. Ways of development with minimal effects on ecosystem Give students to choice the method of their presentation. For e.g. Charts, Some song or anything creative.

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Lesson End <u>Time:</u> 5 min <u>Purpose:</u> • Finish Up	<u>Finish Up</u> • Ask groups to distribute work among themselves. • Ask them to bring the material in the next class for preparation of their presentation.
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Q2. The following pictures speaks a lot. Think how we can reduce these type of conflicts?

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Period 3

Lesson Objectives

At the end of this lesson students will be able to:

- Prepare presentation on their topic in their chosen method.

Teaching Learning Materials required

- Chart papers/art sheets for groups as required

Details of Teaching Learning Experience

Seating Arrangement: - In groups of 4-5

Lesson Beginning <u>Time:</u> 5 min. <u>Purpose:</u> Activate prior knowledge	• Let the groups gather together and start work on their presentation. • They may do the preparation for their presentation.
Lesson Middle <u>Time:</u> 25 min. <u>Purpose:</u> Develop conceptual understanding	• Make sure that everyone is participating in the preparation of the presentation in one way or other. • Extend help to the groups, if required.
Lesson End <u>Time:</u> 5 min <u>Purpose:</u> Finish Up	<u>Finish Up</u> • Ask the students to go through their topics thoroughly as from next class they have to give presentations and be ready for cross questioning.

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Period 4, 5 and 6

Lesson Objectives

At the end of this lesson students will be able to:

- Present their understanding about different topics given to them.

Teaching Learning Materials required

- Charts/art sheets prepared by students for the presentation.

Details of Teaching Learning Experience

Seating Arrangement: - In groups of 4-5

Lesson Beginning <u>Time:</u> 15 min. <u>Purpose:</u> Generate interest	• Start the class by stating the ground rules of the class during the presentation such as 1. students must pay attention to the presentation of the other group. 2. Every member have to take speak something. 3. The students must be ready for cross questioning etc.
Lesson Middle <u>Time:</u> 75 min. <u>Purpose:</u> Develop conceptual understanding	• Give 10 minutes to each group to present their presentation. • Encourage students to ask questions but in a healthy environment. • Make sure that whole is participating in this teaching learning process • Intervene in the presentation only if required.
Lesson End <u>Time:</u> 15 min <u>Purpose:</u> • Finish Up	• <u>Summarize all the presentations presented by the students.</u> • <u>Repeat the important points shared by the students during their presentations.</u> • <u>Clear doubts, if any</u>