

Vision Empower & XRCVC
Teacher Instruction KIT
Go around the forest

Syllabus: Karnataka State Board
Subject: Environmental Science
Grade: 4
Textbook Name: Karnataka State Board
Chapter Number & Name: 3. Go around the forest

1. OVERVIEW

1.1 OBJECTIVE & PREREQUISITES

Objective

- To know about trees that are near the house and in the forest.
- To know about the fruits available in the forest.
- To develop the attitude of not felling the trees as they are ours.
- To realize the necessity of growing trees.

Prerequisite Concept

- Forest, EVS- *Grade 3, chapter 1: A day in the garden*

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*Kindly Note: Activities marked with * are mandatory*

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2. LEARN

2.1 KEY POINTS

Forest: a large area of land covered with trees and plants, usually larger than a wood, or the trees and plants themselves.

Creepers: Creepers, as the name suggests, are plants that creep on the ground. They have very fragile, long, thin stems that can neither stand erect nor support all its weight.

Examples include watermelon, strawberry, pumpkin and sweet potatoes.

Deforestation: Deforestation is when humans remove or clear large areas of forest lands for non-forest use.

2.2 LEARN MORE

None

3. ENGAGE

3.1 INTEREST GENERATION ACTIVITY

Leaf activities

Activity 1: Tracing the leaf outline

Materials required: Tactile diagram of leaves outline, parchment paper, stylus, rubber pad, 4 push pins.

Prerequisites: None

Activity Flow

- *Each of the students will get one tactile diagram of leaf outline and then ask them to trace the outline of that leaf on a parchment paper with a stylus.*

- *Later, ask them if they have seen any such trees having that kind of leaf in their surroundings.*
- *If they have seen or even if they don't also, ask them to collect leaves of those trees.*
- *Later, have a discussion about varieties of trees, plants in the class.*
- *If any of the students are interested in drawing the leaf on parchment paper, they can draw and show it to the teacher.*

Activity 2: Leaf print

Materials required: Play dough/clay, varieties of leaf

Prerequisites: None

Activity Flow

- *Ask all the students to collect leaves and come.*
- *Give them a small amount of clay and ask them to flatten the clay depending on the size of the leaf.*
- *Later, ask them to put a leaf on the flattened clay and press it.*
- *Then remove the leaf and let them observe the print of a leaf they got on the clay.*

3.2 CONCEPT INTRODUCTION ACTIVITIES

Uses of Trees

Activity 3: Uses of trees

Materials required: Name cards of trees

Prerequisites: Tree names

Activity Flow

Ask the students to write the names of trees in braille cards. Then put in a bowl or pocket and mix it.

Later ask all the students to pick one chit from the pocket, then whatever tree name they have got they should try to tell the uses of that particular tree, if they know. Otherwise teachers can tell the uses of trees.

Teak wood tree: Since teak wood is very resistant to rot, it is used to make furniture. It is also used in the construction of boats.

Sandalwood tree: The aroma of sandal wood lasts years. Therefore, it is highly used in the cosmetic industry, as an ingredient in perfumes, soaps, etc. It is also an ingredient in ayurvedic medicines.

Jamboo tree: The fruits of the Jamboo tree are edible. Apart from being eaten raw, they are also used as a garnish in fruit salads

Banyan tree: The Banyan tree is still used as a source of shade in many villages. The bark and seeds can be used as a tonic to maintain body temperature and treat diabetes. Paper and ropes can also be created from the bark of the tree.

Pongamia: It is grown for ornamental purposes for its beautiful flowers. Well-decomposed flowers are used by gardeners as compost for plants requiring rich nutrients.

Neem tree: Neem tree has many uses. It is greatly valued as a medicinal plant. It is also used for timber. It is a natural source of organic pesticides.

Gooseberry: The fruit is eaten, and has a lot of nutritional value. It is a rich source of vitamin C. It is also good for managing Diabetes.

Bamboo: Bamboo is used to make furniture. In fact, houses and buildings are also made from Bamboo. Bamboo is used for medicinal purposes. Dishes are also made from bamboo.

Why do humans clear forest lands?

- *Trees are cut down (deforestation) for many reasons including*
- *To be used, sold or exported as timber, wood or fuel (charcoal). This is called logging.*
- *To be used for farming purposes (grazing fields for livestock, or large-scale farming activities)*
- *To make room for human settlement and urbanization (these include making space for shelter, industries, and roads)*
- *For mining.*

Introduction to Forest

Activity 4: Introducing forests

Materials required: A small cardboard box, things available in the forest such as twigs, leaves, sticks, etc.

Prerequisites: None

Activity Flow

1. Take a small cardboard box around the size of a shoebox.

2. Collect (from the environment) items that are usually found in the forest. This can include rocks, parts of plants/trees, seeds, dirt, twigs, dried leaves, different types of leaves, grasses, and sticks.

- 3. What is in the box can inspire creativity, conversation, questions, and other kinds of interaction during class.*
- 4. Introduce this box to your class. Allow all students to touch, feel, smell and see (if they have some vision) each item.*
- 5. As you pull out each item, invite the children to tell you about what they have in their hands.*
- 6. Take this opportunity to talk to the children about the colours of the items in the box. The predominant colours are most likely to be green and brown. Explain things like why leaves change colour.*
- 7. The items in the forest box are not just for discussion. They are also for touching and exploring. They can be set out on a table for further exploration.*

3.3 LET'S DISCUSS: RELATE TO DAILY LIFE*

Forests are a Breath of Fresh Air.

Forests are Home Sweet Home.

Forests Keep Things Cool.

Forests Help in the Fight Against Climate Change!

Forests Give Us Lots of Things.

Forests Clean Water.

Forests Help the Soil Stay Put.

Forests Give Us a Way of Life.

4. EXERCISES & REINFORCEMENT

4.1 EXERCISES & REINFORCEMENT

Puzzle

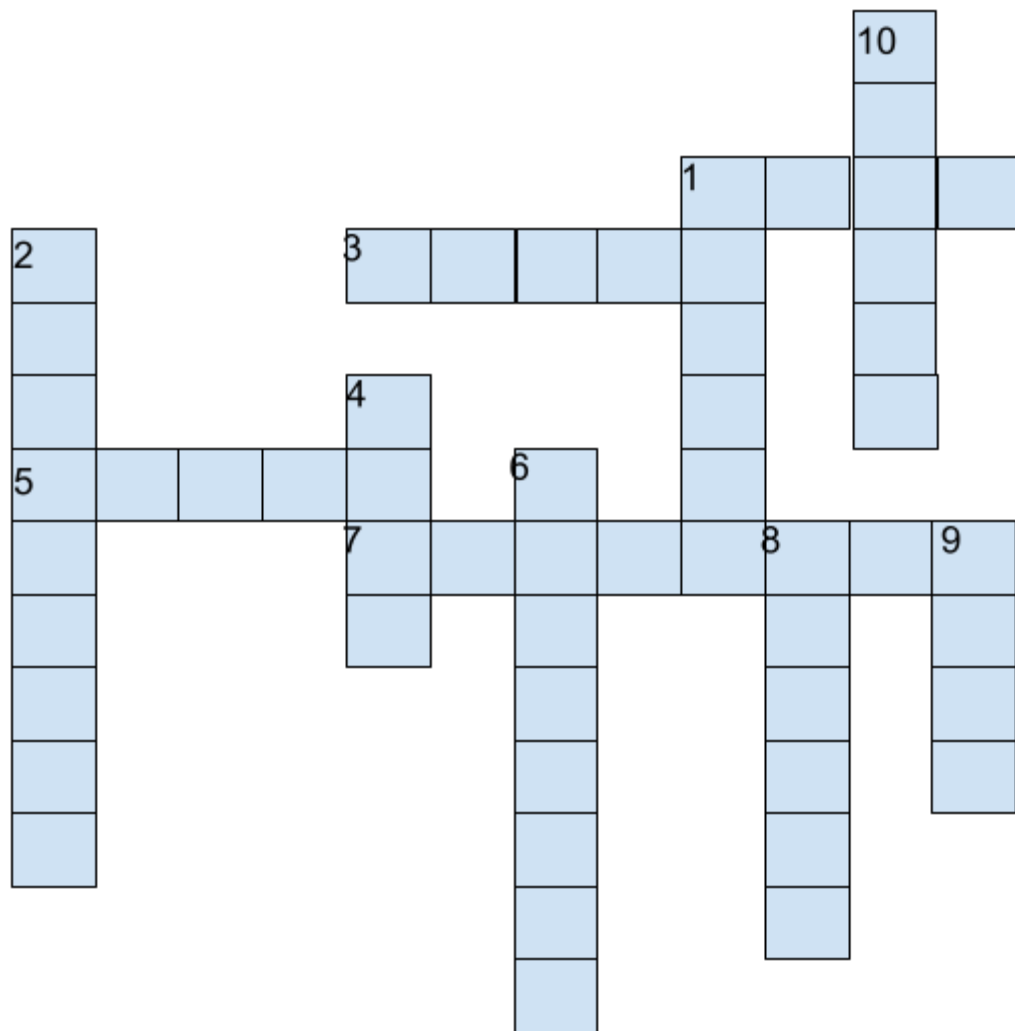
Activity 5: Puzzle - Crossword

Materials required: Braille prints of the below puzzle

Prerequisites: Creatures around them

Activity Flow

Teachers can do this reinforcement activity in the class by making groups of 4 and giving the braille print of this puzzle to each group. Then give them the questions.



Across

1. My call is croak and I lay eggs in the water. Answer: FROG
3. I am a slow moving animal and I have a shell for my protection. Answer: SNAIL
5. I have branches and leaves in me. Answer: TREE
7. I am an animal, who eats nuts and mostly lives on the burrow of a tree and makes a sound as it squeaks. Answer: SQUIRREL

Down

2. I am an insect and I have colorful wings to fly. Answer: BUTTERFLY
4. I am a home for birds. Answer: NEST
6. I look like an umbrella and I am known as the meat of the vegetable world. Answer: MUSHROOM

8. I am an animal and I eat carrots and grass more. Answer: RABBIT

9. When I am alive I am green and soft, when I die I am brown and rough. Answer: LEAF

10. I have petals and I give fragrance. Answer: FLOWER

4.2 IMPORTANT GUIDELINES*

Exercise Reading

It is very important that the children practice their learnings as well as their reading. Hence have the children read out the newly learned concepts from their textbooks or other available resources.

Perform Textbook Activity

It is good practice to have the children perform the textbook activities. Your textbook activities might not be accessible hence go through this resource to learn how to make textbook content accessible

Provide Homework

To evaluate their understanding and to help the student revise and implement the new learnt concept ensure to provide them with homework. Students should perform one or two of the questions mentioned above or from the textbook exercises with the teacher in Class and the remaining may be given for homework. Also, ensure that the student knows their special skills linked to independently using their accessible books as it will be critical to doing homework independently

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