

Vision Empower & XRCVC
Teacher Instruction KIT
The Family of Water

Syllabus: Karnataka State Board

Subject: EVS

Grade: 3

Textbook Name: ENVIRONMENTAL STUDIES - Text cum Workbook (Revised) - Third Standard

Chapter Number & Name: 5. The family of water

1. OVERVIEW

1.1 OBJECTIVE AND PREREQUISITES

Objective

- Identify and classify the animals living in sea and river
- Understand how plants and animals respond to rain
- Identify the changes that occur in the quantity of water during different seasons

Prerequisite Concept:

- Awareness regarding names of common aquatic animals

Content Index

OVERVIEW

1.1 OBJECTIVE AND PREREQUISITES

LEARN

2.1 KEY POINTS

2.2 LEARN MORE:

ENGAGE

3.1 INTEREST GENERATION ACTIVITY

INTRODUCTION TO THE TOPIC

Activity 1: When it rains *

3.2 CONCEPT GENERATION ACTIVITY

EFFECTS OF RAIN ON PLANTS AND ANIMALS

Activity 2: Sing a song with Ambu *

ANIMALS FOUND IN RIVER AND SEA

Activity 3: River and sea creatures *

Activity 4: List out the names of river and sea animals (reading/writing) *

QUANTITY OF WATER DURING DIFFERENT SEASONS

Activity 5: Water level *

3.3 LET'S DISCUSS: RELATE TO DAILY LIFE

EXERCISES & REINFORCEMENT

Activity 6: Clapping game for river and sea creatures

Activity 7: Making paper boat (paper craft)

Activity 8: Think, recite and write a poem (HW suggestion)

IMPORTANT GUIDELINES

*Note: The fields marked with * are mandatory*

2. LEARN

2.1 KEY POINTS

Common animals that are found in the river are fish, frogs, crocodiles, geese, cranes and crabs. Animals we find in the sea are whales, sharks, dolphins, starfish, jellyfish, octopus, sea horse, lobster and many more. During rain, the surrounding looks fresh with the plants and trees becoming clean and appearing greener. Animals like frogs, snails, snakes come out of their holes or burrows during rain.

2.2 LEARN MORE:

NA

3. ENGAGE

3.1 INTEREST GENERATION ACTIVITY

INTRODUCTION TO THE TOPIC

Activity 1: When it rains *

Materials required: None

Prerequisites: NA

Activity Flow:

- Ask students if they have ever experienced rain. Tell them to share how they felt during rain. Ask them to share what they normally do when it rains and what they would like to do.
- If there is any farm or facility where ducks, geese, frogs, toads, turtles etc. are kept, take students to the place and let them hear, smell and get a feel of those animals.

3.2 CONCEPT GENERATION ACTIVITY

EFFECTS OF RAIN ON PLANTS AND ANIMALS

Activity 2: Sing a song with Ambu *

Materials Required: NA

Prerequisites: NA

Activity flow:

Remind students about Ambu, the water drop (Ambu in Sanskrit means water). Today, Ambu has come to tell us something about rain.

Q - Where does rain come from? And what happens to all the plants and animals when it rains?

Summarise the responses by saying that when rain falls from the sky, we say it is raining. The dust on the plants gets washed away and they become fresh and clean just like how you feel fresh after taking a bath. Also, we find some animals enjoying the rain drops falling on their bodies and some others take shelter under the trees. But they all seem to be happy when it rains. Certain creepies and crawlies like snails, toads, centipedes and snakes come out of their burrow as their burrows get filled with water from the rain.

Encourage students to sing the song

Drop by drop, in the form of rain I come to the earth.

I flow in the form of streams and join the rivers.

All the rivers flow into the sea.

There are different kinds of plants and animals in the rivers and seas.

ANIMALS FOUND IN RIVER AND SEA

Activity 3: River and sea creatures *

Materials Required:

- Models of sea and river animals like fish, crab, starfish, dolphins, sea horse etc.
- Two small baskets

Prerequisites: NA

Activity flow:

Discussion:

Q - Which are the animals you find in and around a river?

We find fish, frogs, turtles, crocodiles, crabs and birds like cranes and ducks in and around the river.

Q - Which animals do you find in the sea?

We find fish, some of them are very big like whales, sharks, dolphins, then we find starfish, jellyfish, octopus, sea horse, lobster and many more.

Pass around the models. Ask students if they can identify any of them. If they are not able to identify, help them by introducing the names of each animal and discuss the general size, shape, features and body parts of those animals. Now, tell them that you have 2 baskets. Consider one basket for river animals and the other for sea creatures. Ask students to place the animals in the correct basket.

Activity 4: List out the names of river and sea animals (reading/writing) *

Materials Required: Writing materials

Prerequisites: understanding of rows and columns

Activity flow:

Ask students to write names of river animals in one column and sea animals in the other column. Help them with the spellings if required. Ask them to read out the names they wrote.

QUANTITY OF WATER DURING DIFFERENT SEASONS

Activity 5: Water level *

Materials required: A glass filled with water to three-fourth level

Prerequisites: NA

Activity flow:

Begin the topic with this activity. Walk around the class and make children feel and understand how much of the glass is filled with water.

Q – Now, ask them what will happen if we pour more water in it? (it will get filled up and spill)

Q - What will happen if we keep this glass outside in the hot sun for a day? (some of the water would dry up from the glass and the water level in the glass would reduce)

Inform students that this is exactly what happens to the various sources of water like ponds, rivers or lakes. So, when do you think these sources would get filled up or overflow with water?

After discussion, arrive at the conclusion that this will happen during the rainy season when it rains a lot.

Similarly, during the summer season, when the sun is very strong, the water in ponds and rivers would dry up due to the heat of the sun. During winter, the water is at a medium level since the heat of the sun is not as strong as summer and it does not generally rain as well.

Thus, we understand that seasons have an effect on the water level of the various sources of water.

Q - What happens to plants and animals during different seasons?

The plants and trees become dull and dry up due to lack of water during summer season, but they start blooming again when it rains.

Similarly, lack of water affects animal lives as well especially the wild animals since the source of water starts to dry up and the water level reduces. The animals lose their liveliness. This shows how essential water is for all the beings.

3.3 LET'S DISCUSS: RELATE TO DAILY LIFE

The teacher can talk more about the effects of rain on animals, plants and various water bodies. Students should be encouraged to speak about their observations and experiences on the same.

4. EXERCISES & REINFORCEMENT

Activity 6: Clapping game for river and sea creatures

Materials required: None

Prerequisites: NA

Activity flow:

Tell children that you are going to call out any random names of animals and they would clap once if it is a river animal and clap twice if it is a sea animal. And if they think it is found in both the places, then they would stamp their feet once.

For example:

Duck (river) – clap

Jellyfish (sea) – clap clap

Small fish (both) - stamp

Activity 7: Making paper boat (paper craft)

Materials required: One A4 sheet per child

Prerequisites: Comfortable in folding papers to make different shapes

Activity Flow:

Give the following step-by-step instructions:

1. Take the sheet of paper, place it along the vertical side in front of you on the table and fold it into half downwards.

2. Bring the top corners to the center so that you get a triangle shape with a rectangle under it.
3. Fold the rectangle part upwards on the triangle. Flip your paper and do the same on the other side.
4. Grab the center of the triangle shape with both hands and pull both the sides outward to form a shape like a square and then flatten with the palm of your hand.
5. Fold the front layer up, turn it and do the same on the other side. You will get a triangle shape again.
6. Slowly pull the top parts outwards and you have your paper boat!

Explain the different parts of the boat to the children.

Activity 8: Think, recite and write a poem (HW suggestion)

Materials required: Writing materials (optional)

Prerequisites: NA

Activity Flow:

Encourage students to write a poem of their own related to rain or water. Alternatively, they can learn a poem from elders or friends and recite the same in the class.

IMPORTANT GUIDELINES

Teaching Tips

NA

References

NA

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.

End of Document