12

Water

We'll cover the following key points:

- Uses of Water
- Sources of Water
- Clean Water

Hi, I'm EeeBee

Do you Remember:

Fundamental concept in previous class.

In class 1.. we learnt

- Water and It's Uses
- Sources of Water

Still curious? Talk to me by scanning the QR code.

Learning Outcomes

By the end of this chapter, students will be able to:

- Know that water is important for all living things.
- Learn that we use water for drinking, bathing, and cleaning.
- Understand that water comes from rivers, lakes, and rain.
- Know that plants and animals need water to live.

Let's Start

Forms of water.

USES OF WATER

Take a Task

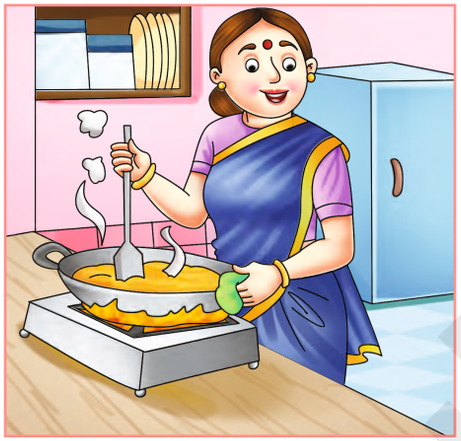
Watch Remedial

We need water to live.

Plants and animals also need water to live.

We use it in many ways.

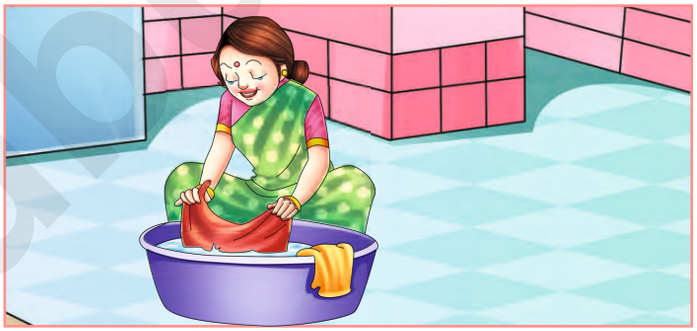
Drinking



Cooking

Bathing

Watering plants



Washing clothes

Cleaning utensils

SOURCES OF WATER

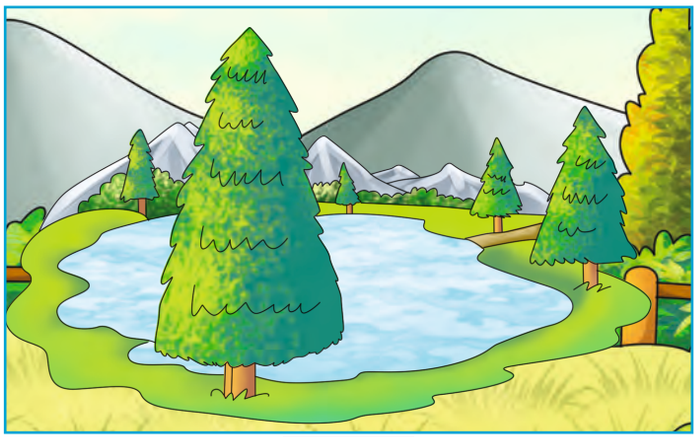
Take a Task

Watch Remedial

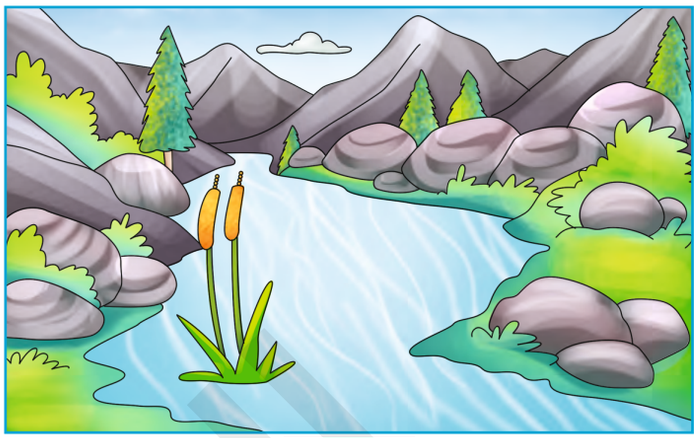
Rain is the major source of water.

Clouds change into rain and form puddles and streams on the earth's surface.

Some rain water flows away in **ponds**, **lakes** and **rivers**. Rivers flow to **oceans** and **seas**. Some water goes into the ground. This water is called **ground water**. We get ground water from **taps**, **wells** and **tubewells**.

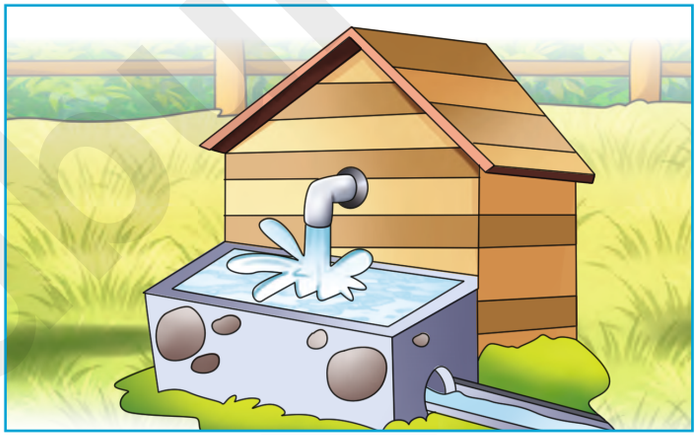


Lake



River

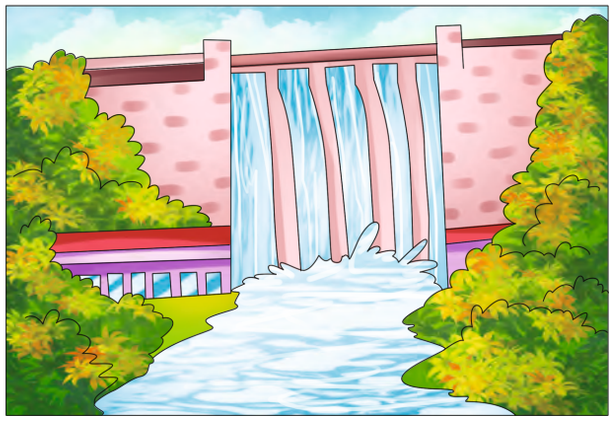
Sea



Tubewell

But, it does not rain all the me.
We need water everyday.
We dig wells to get water. We also make tubewells to get water.
River water can be stored by building a **dam** across it.

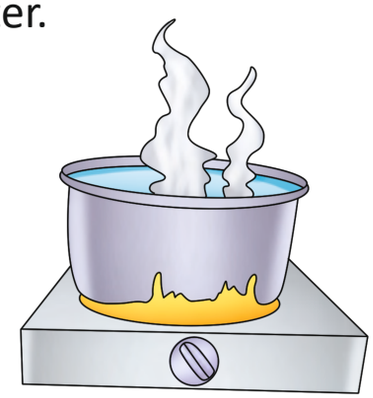
Well



Dam

CLEAN WATER

Water from taps, wells and rivers is not always clean or pure.
Dirty water contains germs. These germs can make us ill.
We should **boil** or **filter** water before drinking. Germs are killed when we boil water.



Boiling water

Water filter

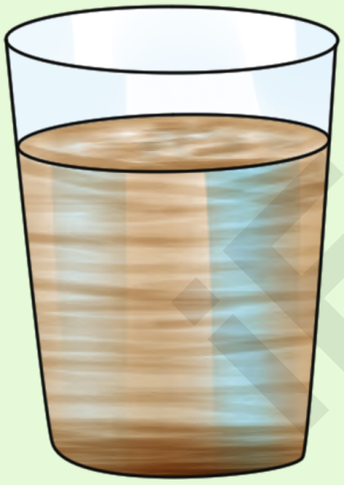
Take a Task

Watch Remedial

Let's Do

Water Filter

Take a glass of muddy water.



Muddy water

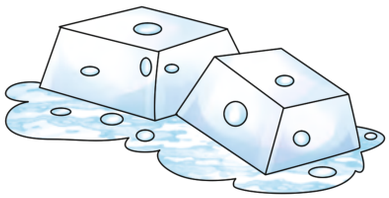
- Take a funnel and fix a filter paper in it.
- Put this funnel in a flask.
- Slowly pour the muddy water in the funnel.
- What do you observe ?
- We see that the water in the flask is clean.

THREE STATES OF WATER

Water exists in three states or forms.

- **Solid**
- **Liquid**
- **Gas**

1. Ice is the **solid state** of water. When we freeze water, we get **ice**.



Solid state

Liquid state

Gaseous state

2. **Liquid** form of water is that we see in our everyday life.

3. When we heat water, **steam** is formed.

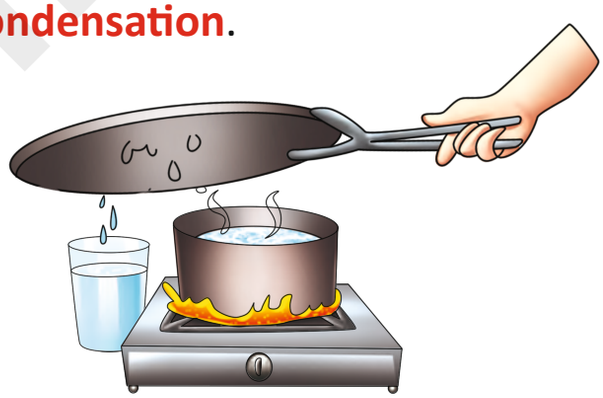
This is the **gaseous** form of water.

It is also called **water vapour**.

EVAPORATION AND CONDENSATION

The process of changing of water into water vapour is called **evaporation**.

If we hold a steel plate with the help of something or holder of a bowl, n y drops of water are formed. The process of changing of water vapour back into water is called **condensation**.



Evaporation and condensation of water

Water is very precious for us. We must use water wisely.

Word Treasure

- **Ground water** : Rainwater which collects under the ground.
- **Dam** : A man-made structure built across rivers to store water.

Let's Revise

- All humans, animals and plants need water to live.
- Water is found in three states— Solid, Liquid and Gas.
- Rain, ponds, rivers, seas and oceans are different sources of water.

Clean and Green Exercises

Gap Analyzer..
Take a Test

A. Fill in the blanks. Take help from the box:

rain evaporaon solid g aseous

1. Ice is the ..... state of water.
2. Steam is the ..... state of water.
3. The main source of water is the ..... .
4. Changing of water into water vapour is called ..... .

B. Answer the following quesons:`

1. What are the three states of water?

   .....

2. What happens to water when it is heated?

   .....

3. What is condensaon?

   .....

4. Name any two sources of water.

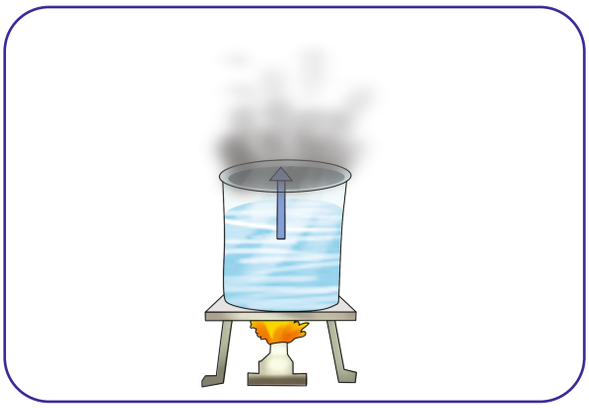
   .....

5. Name any two methods by which water can be cleaned.

   .....

C. Look at each picture given below. Tell whether it is in evaporaon or condensaon process?

(1)



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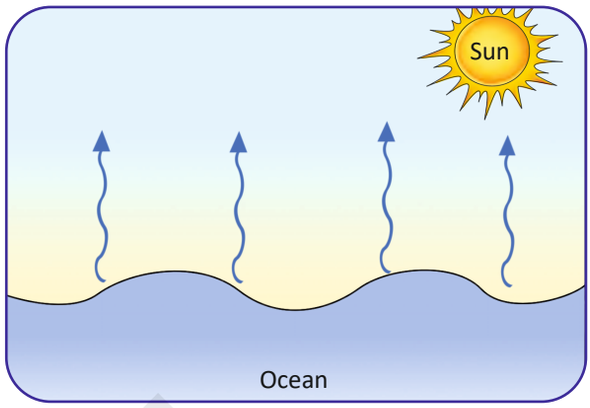

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(3)

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(4)

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D. Collect the pictures of four water sources from old newspapers or magazines and paste them here. You can also get pictures from the internet.

Nut Cracker

Water is very precious. We should not waste water. Otherwise, all the water will finish one day! There will be no more water to drink, bath, watering plants, etc. Think and write five ways in which you think we can save water.

1. .....

2. .....

3. .....

4. .....

5. .....

Custom Learning Path

Scan to Create Your Own Learning Path

HOTS

How can we keep water sources clean? Discuss with your friends and write any two steps.

.....

.....

Wonder Explorers

Uses of Water

STEM

Let's learn about the importance of water and how we use it in our daily lives.

Acvity: Water Use Chart

1. **Task:** Create a table with "Acvity" and "How water is used."
2. **Steps:** List acvies like drinking, cooking, cleaning, and watering plants, and explain how water is used in each.
3. **Acvity:** Share your chart with the class.

Learning

Understand how water is essenal for life and its many uses in our daily roune.

Skills Covered: Observation, Creativity, Communication

Little Techies

Arficial In telligence

Ask an AI device like Alexa or Siri:

1. What are the main uses of water?
2. How can we make water safe for drinking?

Skills Covered: Logical thinking, Digital literacy, Curiosity

Colors and Creations

Art

Draw a picture showing the uses of water, like drinking, cooking, and watering plants. Add sources of water like rivers and wells. Use bright colors and explain your drawing.

Skills Covered: Creativity, Expression, Collaboration

Language Links

Learn and write the names of water and its sources (e.g., river, lake, well) in your mother tongue and one other language. Discuss how water is celebrated in different cultures and fesv als.

Skills Covered: Language awareness, Social skills