

Chapter 3 - Water O' Water!

Water is one of the most precious resource on Earth and is necessary for all living beings. We cannot live without water.

Importance of Water

- Plants and animals cannot survive without water.
- Water is necessary for our day to day life purposes like bathing, cooking, cleaning, and washing and so on.

Characteristics of Water

- Colourless
- Odourless
- Tasteless

Sources of Water

1. Surface water



2. Underground water



1. Surface water - Surface Water is found in lakes, rivers, and reservoirs. Rain is the most important natural source of surface water.

2. Underground water - Some rain water seeps into the ground and is present as underground water. Underground water is drawn out with the help of hand - pumps, tubewells and by digging wells.

Forms of Water

Water occurs in three **different forms in nature**



Solid - Ice is solid form of water is found at the snow covered mountains and the glaciers.

Liquid - The liquid **form** is present in the rivers, lakes, seas, and oceans

Gas - Gaseous form of water vapour is always present in the air around us.

Uses of Water



- Drinking
- Cooking
- Bathing
- Washing clothes and dishes
- brushing teeth
- watering the garden
- washing pets etc.



Water Supply in the city

The water works department supplies water to our homes. Water from different sources is treated to get rid of impurities and germs before it is pumped through pipelines to our houses.

Water Shortage

There is water shortage in the cities due to extra demand of water. Water shortage occurs due to the following reasons:--

- Over population, that results in more demand of water.
- Wastage of water in day to day activities.
- Less rainfall due to several human activities like deforestation
- Men cut forests and make land concrete to build houses, factories, malls etc. Rain water cannot seep through concrete land. This causes underground water level to go down.
- Water is being polluted that results in lesser water for usage.

Storing Water



Water is stored so that it can be used in when **water** supply is not available. Water used for drinking and cooking should be handled hygienically. Following are tips to store water:--

- Always keep drinking water covered
- Do not dip dirty glasses or fingers into vessels containing water for drinking.
- Store drinking water in clean containers. The container should be washed regularly.

Saving Water

Saving water means using our water supply wisely and be responsible. As every individual depends on water for livelihood. All of us can adopt and implement some very easy ways to start this fight for conserving water for our future generations.

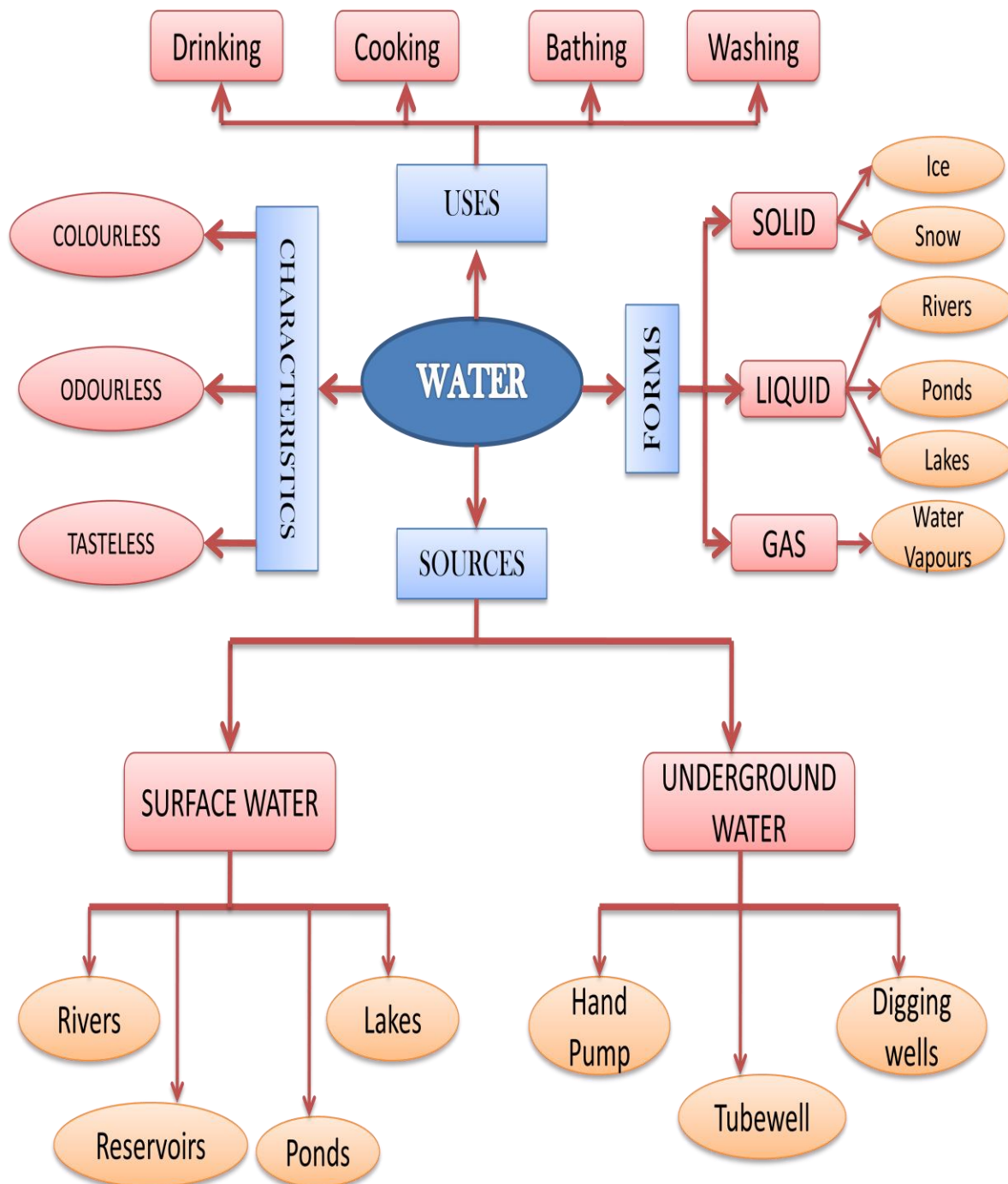
Tips to save water:--



Facts related with water

- ❖ The earth is called the 'Blue Planet' because it consists of three fourth of water
- ❖ Most rain is perfectly safe to drink and may be even cleaner than the public water supply
- ❖ 70% of the human brain is water.
- ❖ A person can live about a month without food, but only about a week without water
- ❖ Two-thirds of the world's population is projected to face water scarcity by 2025, according to the United Nation.

MIND MAP



Activities to be done in class

- **Water Safety** - This activity will help children how to be safe with water. -at home -at the beach -at the swimming pool . The children in pairs could be asked to design a poster that could be used to teach people about how to be safe around
- **Saving Water** -The class will discuss ways in which we might waste water in our daily lives. The children could be given the task to design A4 sized signs that could be placed around the school to encourage people not to waste water (The best signs could be laminated and placed in areas of the school where water is used)
- **Create and use a water filter** The children can work in groups for this activity. Teacher will need to have one large empty plastic bottle for each group. Other items needed include water (add dirt to make it unclean), sand/gravel, small pebbles. The children will construct the filter according to the instructions and will examine the water when it passes through the filter to see if it has been filtered. (The water may need to be filtered more than once so the water filters can be left and checked at points throughout the day/week .



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