



Master Lesson Plan

For

Too Much Water Too Little Water

Board	Standard	Subject	Chapter	Language	Reference Link	Creation
CBSE	STD IV	EVS	Too Much Water Too Little Water	English	Too Much Water Too Little Water	2020-11

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Too Much Water Too Little Water

1. MS_Objectives_Too Much Water Too Little Water

Notes to the teacher: This asset lays down the proposed plan for transacting this chapter.

It states the asset objectives of the MLP.

This asset is for teacher's reference and need not be taught to the students.

Students will be able to:

- explain that water is a precious resource and that it has to be conserved.
- discuss the main sources of water .
- assess on Water Conservation.
- examine the various reasons for water shortage.
- analyze the importance of water.
- create a poster on Water Conservation with suitable quotations.
- be aware of Rain Water Harvesting in Holgundi.
- explain some water borne diseases.
- be aware of certain precautions they can take to avoid diseases.
- assess on Water Borne Diseases.
- realise that the most valuable resource is water and conserve it.

Time to teach	Asset Type	Theme	SubTheme
2 Minutes	Main Script	Water	Water Borne Diseases, Sou Importance of Water, Conse Water Borne Diseases, Sou Importance of Water, Conse

2. IQ_Importance of Water

Teachers may ask these questions and get answers from the students. Teachers may also summarize the different answers given by the students and explain the answer further.

1) Why do we only use water to take a bath?

Answer: Water does not harm us when we touch it, like many other liquids. Water is not sticky like oil. It removes soap easily so it cleans our body the best.

Bathing with cold water or warm water is proven to be healthy, so many people bathe with well water, lake water and rivers.

2) Why do we need to drink water daily?

Answer:

Water helps in the various functions of the body like digestion of food, circulation of blood, removal of body wastes in the form of sweat and urine.

1. Water increases the energy and removes tiredness.
2. Water keeps the skin glowing and removes dryness.

3) What are the healthy ways to drink water?

Answer:

1. Drink boiled water because boiling kills harmful bacteria present in the water.
2. Drink water before and after meals.
3. Drinking water in between meals makes digestion difficult.
4. Do not drink very cold water. We may catch a cold or cough.
5. Carry our water bottle when we go out.
6. If we buy drinking water, we have to check the date and seal on the water bottle.

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Inquisitive Questions	Water	Precious Resource, Preciou

3. MS_Sources of Water

The teacher may explain the following:

The three main sources of water are Groundwater, surface water and rainwater.

- Groundwater: Most of our water is found underground. Water found in small underground lakes is called groundwater. We can collect this groundwater by digging wells with drills, and collecting the water with the help of buckets or pumps using motors.



- Surface Water: This water is the easiest to collect because it is found on the surface. It is called surface water. So, we do not need to dig and build wells to collect the water. Examples of surface water are lakes and rivers.
- Rainwater: This water comes from clouds in the sky, when it rains. It is called rainwater. This water is also easy to collect because we can collect it using pits and tanks.



Image Source:

<https://pixabay.com/en/fountain-old-stone-wall-wall-about-788430/>

<https://pixabay.com/en/rain-background-drop-weather-water-316579>

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Main Script	Water	Sources of water, Sources o

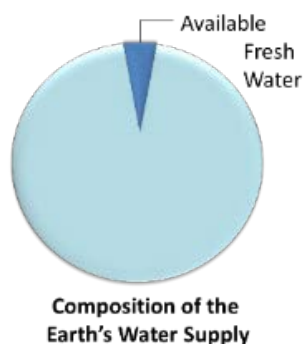
4. MS_Water Conservation

Teachers may explain the following:

Water- a precious resource:

All living things need water to survive.

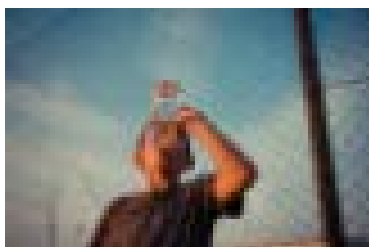
We use water for many things. We use it for drinking. We use it to water plants. We use it to wash clothes, vessels and to take a bath. Sometimes, we use water to play in water parks. Water is precious, and is used in nearly everything around us.



Only 3% of the Earth's water is fresh. Hence water has to be saved as a precious resource.

We need to drink water to keep us alive. We need to drink a minimum of one litre of water every day. When we are thirsty, we drink water so our body can grow and develop. We eat plants and plants need water to grow.

So, we need water to grow plants.



Water is a limited resource

We do not have an endless supply of water. One day we might run out of it. So we need to use water carefully and make sure it is not wasted. Many people waste water.

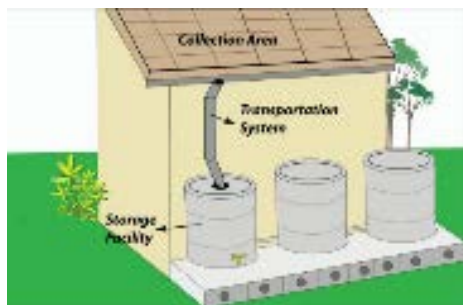
For example: Water is wasted in water parks. Sometimes, the taps in the parks and some homes are left leaking, resulting in water wastage. We need to stop this so that we can save water.

Water Conservation

Teachers may explain the following.

Importance of water conservation

Water conservation means prevention of loss of water, prevention of water pollution and preventing destruction of water bodies. Water conservation is important because it would mean our water supply will last longer for future generations.



Tips to conserve water

- Take quick bath.
- Turn off tap quickly after use. Use water only when necessary. Fix dripping and leaking pipes.
- Tell your friends and family about water conservation.
-

Image Source

<https://pixabay.com/en/desire-boy-water-drink-child-2764840/>

<https://www.srisathyaSaividyaVahini.org/index.php/component/joomgallery/default/rain-water-harvesting-water-water-usage-water-conservation-4895.html>

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Main Script	Water	Conservation of water, Con

5. SA_Poster on Water Conservation

Aim: The aim of this activity is to make small posters for the school bulletin board to bring about the awareness about conserving water in the school and at home.

Preparation: The teacher will have to inform students to bring the materials like chart paper, sketch pens, pictures and glue to make the poster.

Procedure:

Saving water at school and at home:

- Check local newspapers or magazines for pictures of water conservation methods that people follow.
- Bring these pictures to school.
- On a chart paper, make one section for water conservation at home and one section for water conservation at school.
- Stick pictures of these water conservation methods in the respective sections and highlight.



Conclusion: Students will be able to spread awareness on water conservation in school and at home through posters.

Precautions: N/A

Image Source:

Original created by krithika, varshini, edited by Satya, nit.venkat @gmail.com

Time to teach	Asset Type	Theme	SubTheme
15 Minutes	Suggested Activity	Water	Conservation of water, Con

6. MS_Water Shortage

The teacher may explain the following:

- Water shortage is a very big problem.
- There are many causes for water shortage:
- Water Parks: Water parks waste a lot of water that could be used for drinking, watering plants, and taking showers.
- Water Pollution: This happens when pollutants are mixed directly or indirectly into water bodies. Ex: When sewage water gets mixed with drinking water, this water is unusable for consumption. This water should not be used for drinking.
- Wastage of water: Water tankers and water pipes in parks across many areas are often left leaking resulting in huge wastage of water.
- Low Rainfall: When a place gets less rain, the groundwater level decreases and water bodies such as ponds and lakes dry up.



- Lack of Surface Water: Many places do not have many lakes, ponds, or rivers, so they face water shortage because they do not have quick access to surface water.

- **Lack of Groundwater:** When places do not have surface water, they depend on groundwater for a water source. Some places do not have the materials or money to build wells to get groundwater. Others do not even have any groundwater.

Due to water shortages, people may not get continuous supply of water in their houses. They would have to stand in queues to get a few buckets or vessels of water from tanks. The water may not be enough for their basic needs like drinking, washing or cleaning.



Image Source:

<https://pixabay.com/en/crack-dry-land-soil-desert-2016599/>

OC: MM request

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Main Script	Water	Conservation of water, Con

7. IA_Rain Water Harvesting

Rain Water Harvesting in Holgundi, Karnataka:

- The children of Holgundi, Karnataka, were able to solve their problem of water shortage through rain water harvesting.
- They cleaned up the tank on top of a hill and fixed it to make it usable for rainwater harvesting.
- They planted grass and trees all around the tank.
- They built a small dam on the slope of the hill to stop the water and soil from flowing down the hill.
- During monsoon when it rained, the tank filled up with water, fish in the tank multiplied and plants grew all around the well.
- Wells and ponds in the village also became full.
- The tank remained full even when the rains had stopped.
- Their water problem was solved. People did not have to leave the village fearing water scarcity.



Image Source:

<https://pxhere.com/en/photo/1348855>

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Interesting Asides	Water	Rain water harvesting, Rain

8. MS_Water Borne Diseases

The teacher may explain the following:

When water gets mixed with bad sources of water such as gutter water or human and animal waste, it gets contaminated and is not suitable for use. Drinking such water can cause water borne diseases like diarrhea, cholera etc. Diseases that spread through contaminated water are called water borne diseases.



- Diarrhoea - This disease is caused by a species of bacteria. Diarrhoea causes loose motions -three or more times a day. This can result in loss of water from the body and cause weakness. Patients who have diarrhea are advised to drink plenty of liquids such as water mixed with salt and sugar which must be sipped slowly. Patients must eat light food, take medications and get checked by a doctor.
- Cholera - Cholera causes diarrhoea and dehydration. The disease is caused by bacteria present in polluted water. You can protect yourself from cholera by drinking boiled water. Cholera patients must see a doctor right away to get proper treatment for the disease.

Image Source:

<https://pixabay.com/en/sea-oats-garbage-pollution-1017596/>

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Main Script	Water	Water Borne Diseases, Wat Diseases

9. DD_Avoid Diseases

Teachers may discuss the following points with the students and make the students understand the relevance of practicing them.

Here are ways to prevent diseases:

- Drink boiled and filtered water.
- Store water in clean vessels and containers. Wash these containers daily and keep them covered.
- Always wash hands before and after eating food.
- Wash hands properly before cooking food.
- Wash hands with soap after using the toilet.
- Make sure the pipes and tanks that supply water to your house are properly maintained and clean.

[Technique to wash hands in the right manner is shown in the PPT]



Image Source:

<https://pixabay.com/en/pot-boiling-water-hot-water-883036/>

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Day-to-day Relevance	Water	Water Borne Diseases, Wat Diseases

10. VC_Save Every Drop Of Water

Water is the lifeblood of our bodies, our economy, our nation and our well-being. Pure water is the world's foremost medicine.



If every individual -adult or child -becomes responsible in using and conserving water, we could help people who do not get enough water and also the future generations.

ACTIVITY:

Find a picture for each of these and mention how you could correct them

1. Dripping tap.



2. Man washing his car with a hose pipe.



3. Water draining from water filter.



4. Bucket overflowing in the bathroom.



5. Drinking glass with left over water.



Answers:

1. Close the tap tight immediately.
2. Request the man to use a small bucket and a mop.
3. Collect the water and use it for other purposes.
4. Fill the bucket only when you are ready and use water carefully.
5. Pour only as much water as you require into the glass and drink it all up.

Image Source:

<https://pixabay.com/photos/humanitarian-aid-water-drink-939723/>

Dripping tap - <https://www.pexels.com/photo/photo-of-gray-faucet-2339722/>

Car wash - https://cdn.pixabay.com/photo/2019/06/23/20/01/carwash-4294613__340.jpg

Clear Water - <https://pxhere.com/sk/photo/1545473>

Bucket water - <https://pixabay.com/vectors/bucket-water-cleaning-materials-24300/>

Glass of water - https://cdn.pixabay.com/photo/2014/11/12/14/49/learn-528391__340.jpg

Time to teach	Value Type	Value Sub Type	Value Attribute
4 Minutes	Truth		Group Activities

11. QA_ Water Sources and Conservation

Fill in the blanks:

1. The three main sources of water are _____, _____, and _____

Answer: Groundwater, surface water and rainwater

2. Water found on the surface of the Earth is called ____.

Answer: surface water

3. The process of collection of rainwater in pits or tanks for later use is called ____.

Answer: Rainwater harvesting

Match the following:

- | | |
|------------------|----------------|
| 1. Well water | A) Clouds |
| 2. Rain water | B) Dirty |
| 3. Surface water | C) Underground |
| 4. Gutter water | D) River |

Ans: 1-C, 2-A, 3-D, 4-B

Multiple Choice Questions:

1) Which water source needs a well to collect it?

1. Surface Water
2. Ground Water
3. Rainwater
4. Gutter water

Answer – B - Groundwater

2) Which out of the four, wastes the most water?

1. Drinking Water
2. Taking a Bath
3. Playing in Water Parks
4. Watering Plants

Answer – C

3) Which method saves water?

1. Fixing dripping or leaking taps
2. Taking long showers
3. Keeping the tap turned on after use
4. Spilling water

Answer - A

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Assessments	Water	Conservation of water, Con

12. QA_Water Borne Diseases_Test your knowledge

I) Fill in the blanks:

1. Diarrhoea results in ----- and ----- of the body

Answer: dehydration, weakness

2. Diseases that spread through contaminated water are called -----

Answer: water borne diseases

3. We should always drink ----- water to protect ourselves from water borne diseases.

Answer: boiled

4. Patients who have diarrhea are advised to drink plenty of ----- mixed with ----- and -----

Answer: water, sugar, salt

II) Answer the following:

1. Why should patients suffering from diarrhoea drink plenty of water?

Ans. Plenty of water is lost due to vomiting and loose motion. In order to prevent the body from becoming extremely weak, a lot of water has to be consumed.

2. Why do patients having diarrhoea drink water mixed with sugar and salt?

Ans: By drinking water in which salt and sugar are added, the body quickly gains strength and energy as it gets back the lost salt and sugar.

III) Multiple Choice Questions:

1. Patients with Diarrhea must eat:

1. Heavy food
2. Light food
3. Spicy Food
4. Sweet Food

Answer – 2

2. What can Cholera cause?

1. Death
2. Weakness in the body
3. Vomiting
4. All of the above

Answer – 4

3. What are the diseases that spread through contaminated water called?

1. Food-Borne Diseases
2. Air Borne Diseases
3. Water Borne Diseases
4. None of the above

Answer - 3

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Assessments	Water	Water Borne Diseases, Wat Diseases

13. MS_Summary_Too Much Water Too Little Water

In this lesson we discussed the following:

- Water is a precious resource and that it has to be conserved.
- Main sources of water and their importance.
- Water conservation.
- Reasons for water shortage.
- Water borne diseases.
- Saving every drop of water.

Time to teach	Asset Type	Theme	SubTheme
2 Minutes	Main Script	Water	Water Borne Diseases, Sou Importance of Water, Conse Water Borne Diseases, Sou Importance of Water, Conse