

## Chapter 18 : Too Much Water, Too Little Water

### Discuss

#### Question 1:

How can unclean or dirty water harm our body?

#### Answer 1:

Unclean or dirty water can cause many diseases in our body. These diseases are called water borne diseases. For example-diarrhea, Jaundice, typhoid etc.

#### Question 2:

Have you ever got dirty or unclean water in your area? What was the reason for this?

#### Answer 2:

Yes, Many times we have got unclean water in our area because of a leakage in the pipeline or sewage pipe getting mixed with water pipe etc.

#### Question 3:

Do you know anyone who has fallen sick because of such water? Talk about this.

#### Answer 3:

Yes, some of my cousin sister fell sick because of drinking such unclean water. She started suffering from loose motions and vomiting. Her stomach was upset and her face became pale and my aunt had to rush to the doctor immediately.

#### Question 4:

When the guest came to Suguna's house, they offered him a cold drink, because they thought he should not drink such water. What do you think Suguna's family must be doing for their own drinking water?

#### Answer 4:

I think Suguna's family must be cleaning the water through boiling it or putting alum/chlorine into the water in order to make it fit for drinking.



## **Discuss**

### **Question 5:**

The guest said he did not take cold drinks. Why do you think he said this?

#### **Answer 5:**

The guest said this because aerated drinks like cold drinks are not good for health. They may cause issues in the digestive system of the body and are bad for our teeth too.

## **Read and write**

### **Question 6:**

Have you ever faced a shortage of water in your house? When?

#### **Answer 6:**

Yes, we have faced a shortage of water in our house during the summer season. We had to buy drinking water to quench our thirst and do the kitchen work.

### **Question 7:**

What did you do then?

#### **Answer 7:**

We had to get water from private tankers or purchase cans of water.

### **Question 8:**

Have you ever played in water? Where and when?

#### **Answer 8:**

Yes, we have played in water at the water park last month.

### **Question 9:**

Are there times when you are not allowed to play in water? What are the reasons for this?



**Answer 9:**

Yes, a number of times we were not allowed to play in water. The reasons for this was

- Shortage of water
- Unclean water
- Too much depth of water

**Question 10:**

Have you seen wastage of water in your area? Discuss.

**Answer 10:**

This is a research project. Complete it with your parent's help.

**Question 11:**

The water park had a lot of water to play in but the nearby village people did not have water even to drink. Think about it and discuss.

**Answer 11:**

The water park had a lot of water to play in, but the nearby village did not have water even to drink because of the poor management of the local municipality or the concerned authorities. The water parks are usually run by private authorities to earn money and make profit. So, they might be getting the water supplied by paying extra charges.

**Question 12:**

If you go to a water park, find out from where the water comes to the park.

**Answer 12:**

The water comes to the park through the pipelines.

**Write in your notebook**

**Question 13:**

Why was Raziya worried when she read the newspaper?

**Answer 13:**

Raziya was worried after reading the newspaper because it said that the gutter water had got mixed with the water in the drinking water pipes, thus making the water dirty and unsafe for drinking.



**Question 14:**

Raziya asked that all the water that was filled the previous day should be thrown. Could this water have been used for something else? What kind of things?

**Answer 14:**

Yes, this water could be used for cleaning purposes like mopping the house, cleaning the car and watering the plants.

**Question 15:**

In what way did she plan to clean the water?

**Answer 15:**

She planned to clean the water by boiling it.

**Question 16:**

Do you know of different ways to clean the water? Describe them.

**Answer 16:**

Yes, I know some ways to clean the water. Water can be cleaned by filtering and adding chlorine tablets or by adding alum, by filtering.

**Discuss****Question 17:**

Suppose, Raziya had not read the news and everyone had drunk the water without boiling it, what could have happened?

**Answer 17:**

If everyone will drink that water without boiling it, then they might be suffered from water borne diseases.

**Discuss****Question 18:**

Where Deepak lives, everyone has to stand in a queue to fill water from the common public tap. In Raziya's house, water comes all day in the tap. Why is this?



**Answer 18:**

Deepak lives in a slum area, where the people are devoid of the basic facilities like water. Whereas, Raziya's apartment is in Cuffe Parade, Mumbai, where her house gets all the basic facilities like water connection, with charges.

**Question 19:**

Raziya read news about the water in the newspaper. Have you read any news about water in the newspapers? What kind of news?

**Answer 19:**

Yes, I have read different news about the water in the newspapers like the shortage of water, unavailability of water in some areas, circulation of unhealthy water, sewage pipe mixed in water pipeline etc.

**Do and Discuss**

**Question 20:**

Look through the newspapers of the last one month. Look for all news-items related to water. Cut them out. Stick all the cuttings together on a big paper to make a big collage. Talk about what you have collected. Discuss in the class.

**Answer 20:**

This is a research project. Complete it as instructed.

**Question 21:**

Have you ever suffered from diarrhoea and vomiting?

**Answer 21:**

Yes, I was suffered from these disease due to dirty water.

**Question 22:**

How did you feel?

**Answer 22:**

I felt very weak.



## Water Survey in School:

### Question 23:

#### Group 1

Observe and Note –

🕒 Put a (✓) in right box or boxes

🕒 Where does the water in your school come from?

Tap ☐ Tank ☐ Handpump ☐ Any other ☐

🕒 In your school, from where do you take water to drink?

Tap ☐ Tank ☐ Handpump ☐ Any other ☐

#### Answer 23:

🕒 Where does the water in your school come from?

Tap ☒ Tank ☒ Handpump ☒ Any other ☐

🕒 In your school, from where do you take water to drink?

Tap ☒ Tank ☐ Handpump ☐ Any other ☐

### Question 24:

If there is no tap, matka or handpump, then how do you get drinking water?

#### Answer 24:

In case there is no tap, matka or hand pump, then drinking water can be obtained from the water tankers

### Question 25:

Is there water in all the taps or hand pumps?

#### Answer 25:

No, sometimes there is no water in all the taps and hand pumps.



**Question 26:**

Is there any tap which is leaking or dripping?

**Answer 26:**

Yes, one of the taps is leaking in my house and one tap keeps on dripping.

**Question 27:**

Are all the matkas filled with water and are they covered?

**Answer 27:**

Yes, all the matkas are filled with water and are covered properly.

**Question 28:**

Are the matkas and other water containers cleaned regularly?

**Answer 28:**

Yes, the matkas and other water containers should be cleaned regularly.

**Question 29:**

How is water made safe for drinking?

**Answer 29:**

Water is made safe for drinking by filtration or boiling before it is used for drinking. Also, chlorine tablets and alum are used to purify the overhead tankers.

**Question 30:**

Is there a long-handled ladle to take water from the matka or container? How many ladles are there per container?

**Answer 30:**

Yes, ladles are available to take water from the matka or container. There is a ladle for each of the matkas/ containers.



**Question 31:**

Is the place around the drinking water-taps or matkas cleaned regularly?

**Answer 31:**

Yes, the place around the drinking water-taps or matkas should be cleaned regularly to ensure that it does not become slippery or unhygienic too.

**Think and Discuss****Question 32:**

Why do the drinking water places get dirty?

**Answer 32:**

The drinking water places get dirty because when we go to fill water, it often gets spilled here and there when we are fetching or taking out water from the containers. These places also get dirty and slippery when people do other activities like washing around these places.

**Question 33:**

What can we do to keep these places clean?

**Answer 33:**

We can be more careful while taking out water from the containers so that the water does not spill around. Also, we can avoid activities like washing around these places.

**Find out and write in your notebook****Question 34:**

How often (once a day, once in two days, etc.) are the containers or matkas and ladles cleaned? Who cleans them?

**Answer 34:**

The containers or matkas are cleaned once in two days. The cleaning staff clean them.



**Question 35:**

How many children are there in your school? How many taps, matkas or handpumps are there? Are these sufficient for children?

**Answer 35:**

There are more than 3000 children in my school. There are water coolers on each floor on both the sides to ensure that the students get clean water throughout the day. Yes, they are sufficient for children.

**Question 36:**

Who cleans the places near the water?

**Answer 36:**

The places near the water should be cleaned by the cleaning staff.

**Question 37:**

Where does the water that is spilt go?

**Answer 37:**

The water that gets spilled is directed towards the garden through drainage pipes.

**Group 2**

**Observe and Note –**

**Question 38:**

Put (✓) in the box and write wherever it is required –

What are the toilet arrangements in your school?

Built toilet ☐ Open area ☐

**Answer 38:**

Built toilet ☒ Open area ☐



**Question 39:**

How many toilets are there?

**Answer 39:**

There are around 10 toilets. Two toilets are there on each floor. Separate toilets are there for boys and girls and there are toilets for the teachers also.

**Question 40:**

Are there separate toilets for girls and boys? ☐ yes ☐ No

**Answer 40:**

Are there separate toilets for girls and boys? ☒ yes ☐ No

**Question 41:**

Is there water in the toilets? ☐ yes ☐ No

**Answer 41:**

Is there water in the toilets? ☒ yes ☐ No

**Question 42:**

Where does the water come from?

the tap ☐ yes ☐ No

filled containers ☐ yes ☐ No

has to be brought from home ☐ yes ☐ No

**Answer 42:**

the tap ☒ yes ☐ No

filled containers ☐ yes ☐ No

has to be brought from home ☐ yes ☐ No



**Question 43:**

Is there water for washing hands near the toilet?

☐

yes

☐

No

**Answer 43:**

Is there water for washing hands near the toilet?

☒

yes

☐

No

**Question 44:**

Do you wash your hands after using the toilet?

☐

yes

☐

No

**Answer 44:**

Is there water for washing hands near the toilet?

☒

yes

☐

No

**Question 45:**

Is there any tap that is leaking or dripping?

☐

yes

☐

No

**Answer 45:**

Is there any tap that is leaking or dripping?

☐

yes

☒

No

**Question 46:**

Are the toilets kept clean?

☐

yes

☐

No

**Answer 46:**

Are the toilets kept clean?

☒

yes

☐

No

**Find out and write:**

**Question 47:**

How many boys and girls are there in your school?

Girls

Boys

**Answer 47:**

Girls

1200

Boys

1800



**Question 48:**

How many toilets are there for girls, and how many for boys?

Girls

Boys

**Answer 48:**

Girls

Boys

**Question 49:**

If there are no taps, who brings the water for the toilet? From where does the water have to be brought?

**Answer 49:**

If there are no taps, The cleaning staff is supposed to arrange the water. The students are supposed to inform the teachers that the toilets are dirty or tell it to the cleaning staff. There are taps to supply water from motors which help in filling the water tanks.

**Question 50:**

Who keeps the place clean?

**Answer 50:**

The place is kept clean by the cleaning staff which includes the sweepers, head sweepers, maids etc.

**Talk about it:**

**Question 51:**

What can be done to keep the toilets clean?

**Answer 51:**

The toilets can be kept clean by flushing properly every time one uses the toilets as well as washing the toilets on a daily basis, also by spraying air purifiers perfumes like ambipure etc..



### Question 52:

What can each of us do for this?

#### Answer 52:

Each one of us can maintain the cleanliness of the toilets by flushing properly every time we use the toilets, ensuring that we don't leave the washrooms dirty after using them or before leaving.

### Question 53:

Have you seen toilets at bus stands or railway stations? How are they different from the toilets at home?

#### Answer 53:

Yes, I have seen various public toilets at bus stands and railway stations. They are used by lot of people. They are usually not very hygienic as they are not kept as clean as the ones which are in our schools and homes.

### Group 3

### Question 54:

Talk with the children in your class and fill in the table given below. In the last few months, how many children in the class have suffered from any of these?

S. No.	Diarrhoea, loose motions	Vomiting	Loose motion and vomiting	Yellow urine, yellow (pale) skin and eyes, mild fever	Stomach ache
1.					
2.					
3.					
4.					
5.					



### Answer 54:

S. No.	Diarrhoea, loose motions	Vomiting	Loose motion and vomiting	Yellow urine, yellow (pale) skin and eyes, mild fever	Stomach ache
1.	Rahav	Jyoti	Atul	Kevin	Priya
2.	Stuti	Mithun	Shriya	Palak	Vandana
3.	Boman	Amit			Dalvin
4.					Radha
5.					Srishti