

WELCOME TO THE ONLINE CLASS

SESSION NO: 7

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 12

CHAPTER NAME: AIR, WATER AND WEATHER

SUB TOPIC: PURIFICATION OF WATER : FILTRATION AND UNDERGROUND WATER

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

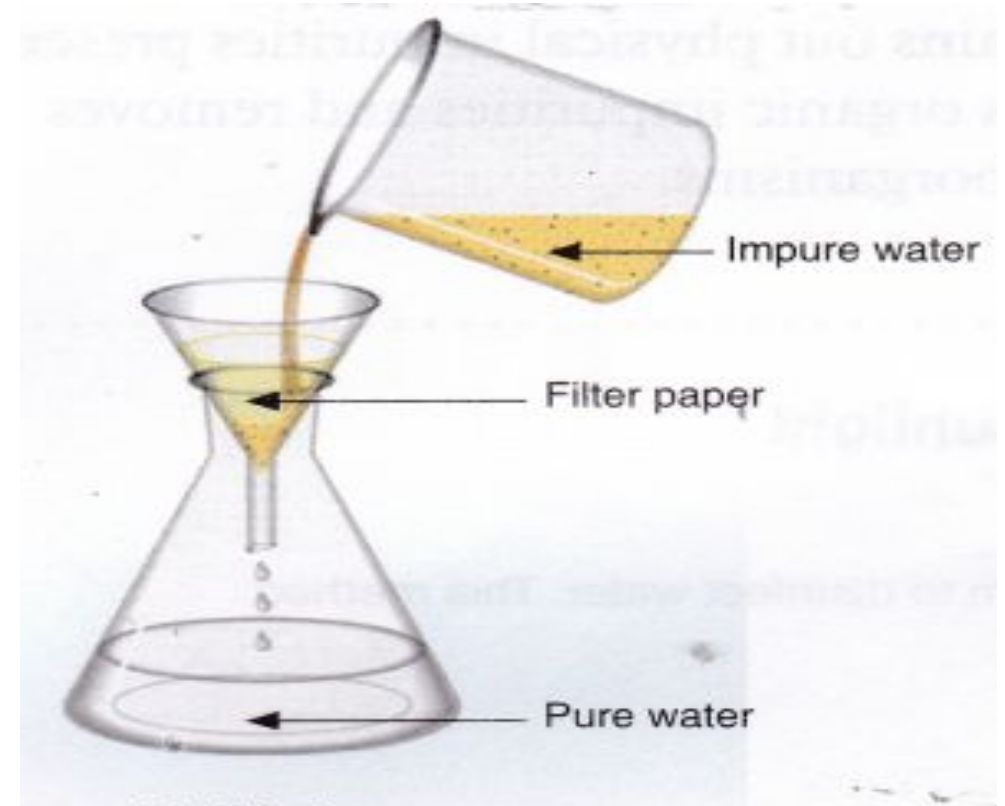
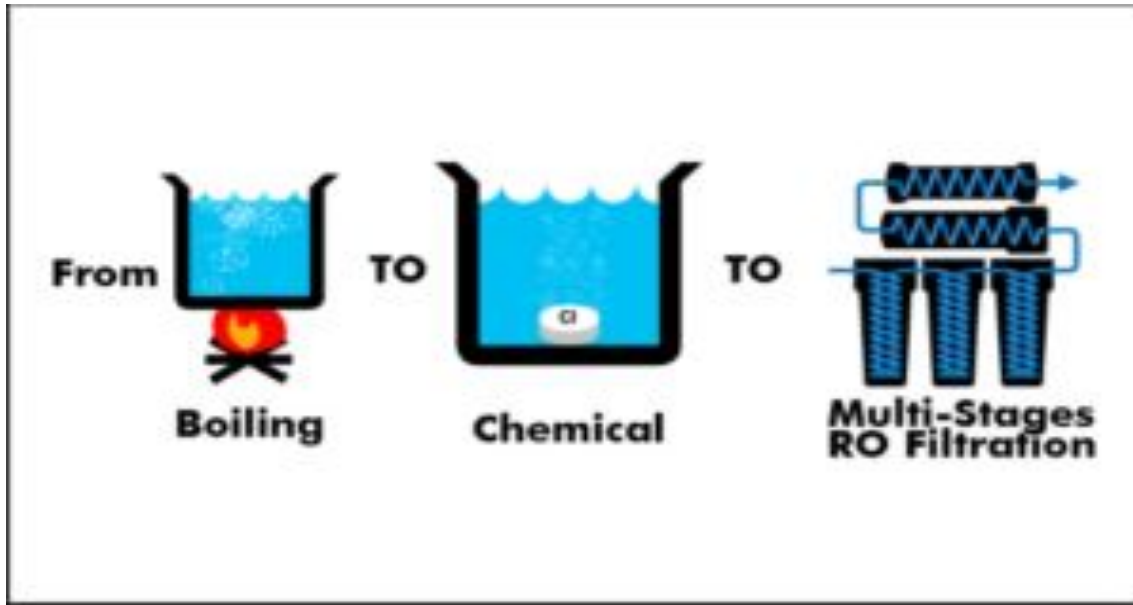
- **Know about different impurities of water**
- **Learn how water can be purified**

RECAPITULATION

1. Settling down of heavy insoluble impurities in a liquid is known as _____.
2. Process for the separation of mixtures of immiscible liquids is known as _____.
3. What are the different types of impurities present in water?
4. Water in wells and rivers is impure. [Give reason]
5. Water in which vegetables and fruits have been washed can be used to _____ the plants.

FILTRATION

- Filtration is a process that removes particles from suspension in water.



DIFFERENT WAYS OF FILTRATION

- At home while pouring tea, you filter it through a strainer.
- Water on the surface of the earth gets filtered when it passes through layers of soil to become underground water.



CHLORINATION

- Chemicals like chlorine are used to kill germs at the waterworks of a city.
- The process of adding chlorine in water is called chlorination.



BLEACHING

- Bleach added to water can destroy germs.
- If well water has to be used, potassium permanganate should be used to purify the water.



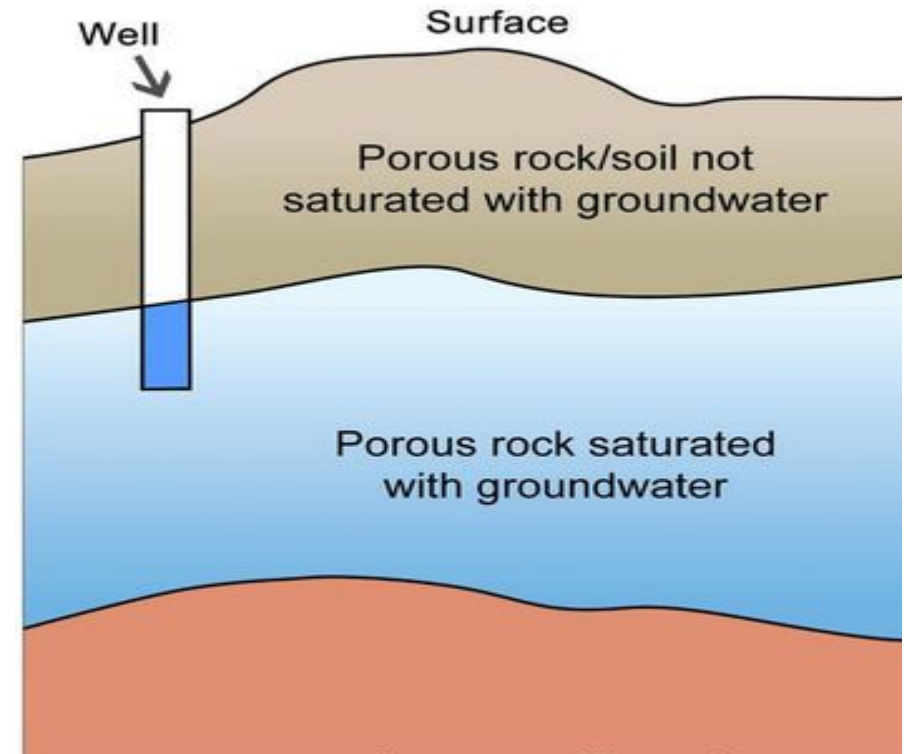
BOILING OF WATER

- The safest way of purifying water is to boil it, as boiling destroys germs.
- We can also use a water filter for cleaning water.



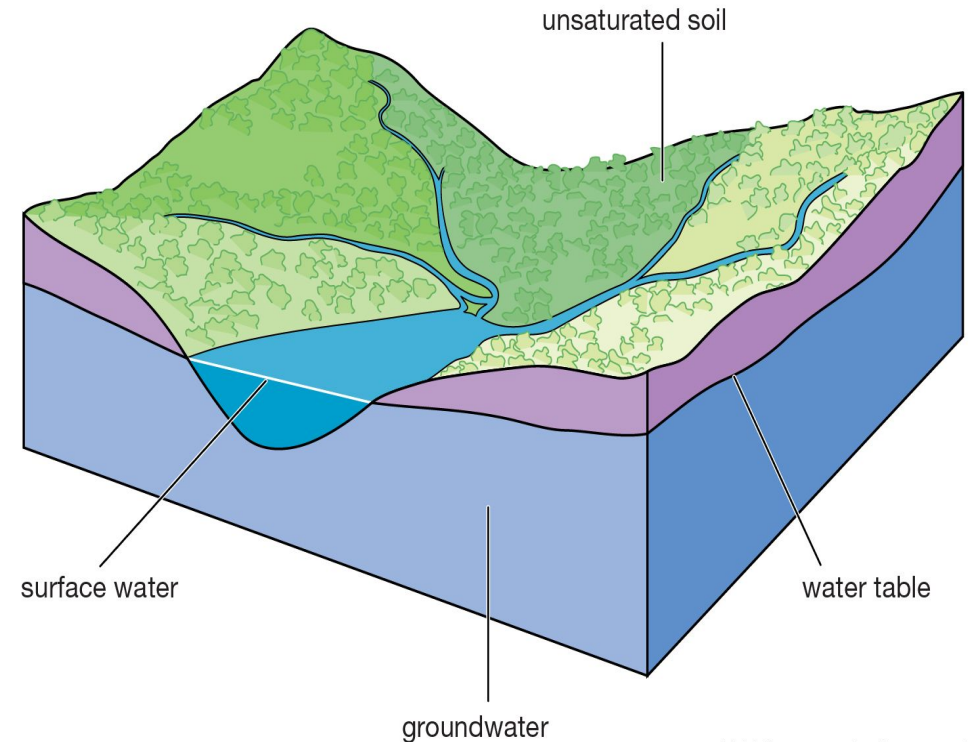
UNDERGROUND WATER

- Water that falls like rain and the water that we throw away goes down into the ground.
- It seeps through the topsoil, the subsoil, and porous rocks.
- It finally settles below the porous rocks as it cannot pass through the non-porous rocks.
- So, there is the large storage of underground water.



WATER TABLE

- The level of underground water in an area is called the water table.
- Water is a precious natural resource.
- We should use it carefully.



SUMMARY

- **Filtration is a process that removes particles from suspension in water.**
- **Water on the surface of the earth gets filtered when it passes through layers of soil to become underground water.**
- **Chemicals like chlorine are used to kill germs at the waterworks of a city.**
- **Bleach added to water can destroy germs.**
- **The level of underground water in an area is called the water table.**

QUIZ!



1. _____ is the level of underground water in an area.

Ans: Water table

2. Insoluble impurities are removed by sedimentation, decantation and _____.

Ans: filtration

3. Which is the safest method of purifying the water to destroy the germs?

Ans: Boiling of water

HOMework

- **Do the oral Q&A of the page no. 105.**

LEARNING OUTCOME

The learner will be able to :

- **Know about different impurities of water**
- **Learn how water can be purified**

THANKING YOU
ODM EDUCATIONAL GROUP