

WELCOME TO THE ONLINE CLASS

SESSION NO: 6

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 12

CHAPTER NAME: AIR, WATER AND WEATHER

SUB TOPIC: IMPURITIES IN WATER, PURIFICATION OF WATER:

SEDIMENTATION AND DECANTATION

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE



To enable the learner to:

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



RECAPITULATION

- 1. In which process does water vapour cools down and changes into drops of water?
- 2. What occurs when thick clouds of tiny drops of water form just above land or water?
- 3. The water droplets that we find in the morning on leaves are called as .
- 4. Soft, white flakes of ice that fall from the sky to the earth is known as

____•



IMPURITIES



- Impurities: the quality or state of being impure in liquid, gas or solid.
- The types of impurities in water can include dust, dirt, harmful chemicals etc.





IMPURITIES IN WELLS AND RIVERS

- The water in wells and rivers is impure due to the presence of
 - a. insoluble impurities
 - b. soluble impurities
 - c. disease-causing germs



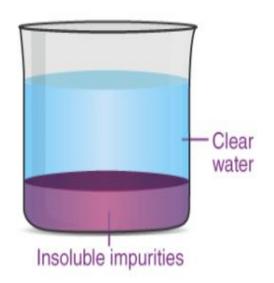




SEDIMENTATION

 SEDIMENTATION: Settling down of heavy insoluble impurities in a liquid.



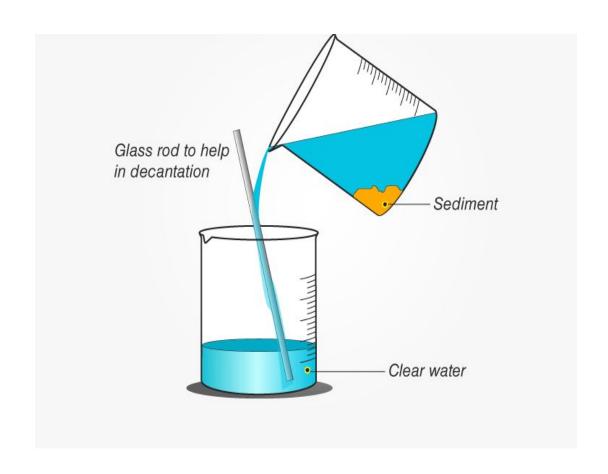


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DECANTATION

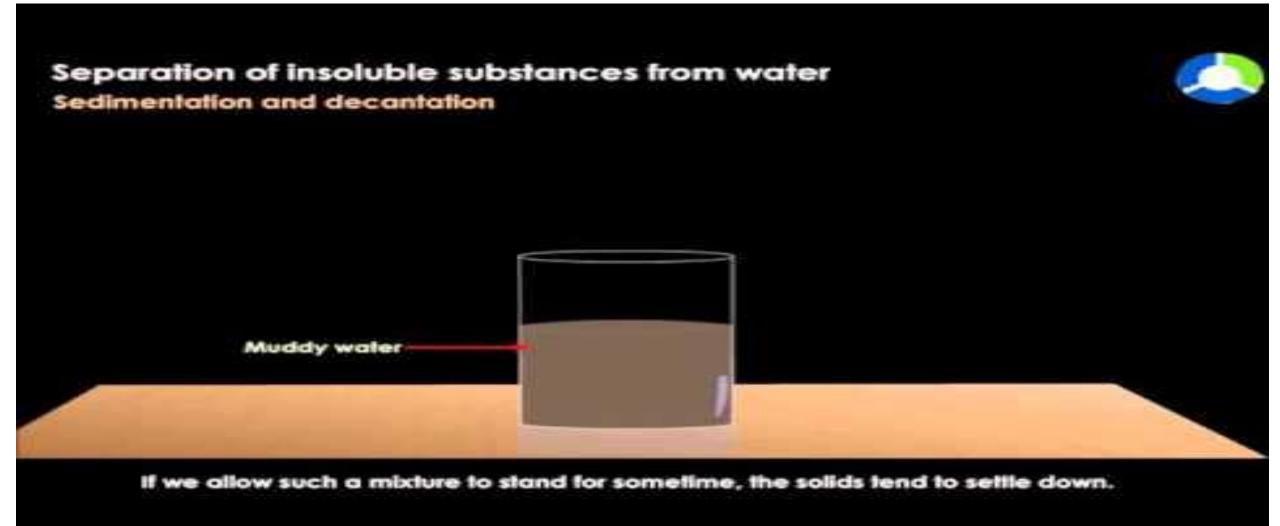


- Gently pour liquid into another vessel after sedimentation.
- Decantation is a process for the separation of mixtures of immiscible liquids.





PURIFYING OF WATER







ANSWER THESE QUESTIONS

1. What do you mean by weather?

Ans: Weather is the state of the atmosphere at a particular place and time related to heat, cloudiness, dryness, sunshine, cold, wind, rain, etc.

2. How is condensation different from evaporation?

Ans: Condensation is the change from a gas to a liquid state on cooling whereas evaporation is the change of a liquid to a gas on heating.

3. What are the two types of impurities in water?

Ans: The two types of impurities in water are soluble and insoluble impurities.

SUMMARY



- Impurities in water can include dust, dirt and harmful chemicals.
- The types of impurities in water can contain soluble, insoluble and disease causing germs.
- SEDIMENTATION: Settling down of heavy insoluble impurities in a liquid.
- DECANTATION: Process in which you will gently pour liquid into another vessel after sedimentation.





1. Process of settling down of heavy insoluble impurities in a liquid.

Ans: Sedimentation



2. Process for the separation of mixtures of immiscible liquids.

Ans: Decantation



3. Impurities in water can include dust, dirt and ______ chemicals.

Ans: harmful



HOMEWORK

• Draw the pictures by showing different methods of removing impurities from water in your notebook.

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