

WELCOME TO THE ONLINE CLASS

SESSION NO: 5

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 12

CHAPTER NAME: AIR, WATER AND WEATHER

**SUB TOPIC: WATER CONDENSATION : FOG, DEW, FROST, HAIL
AND SNOW**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

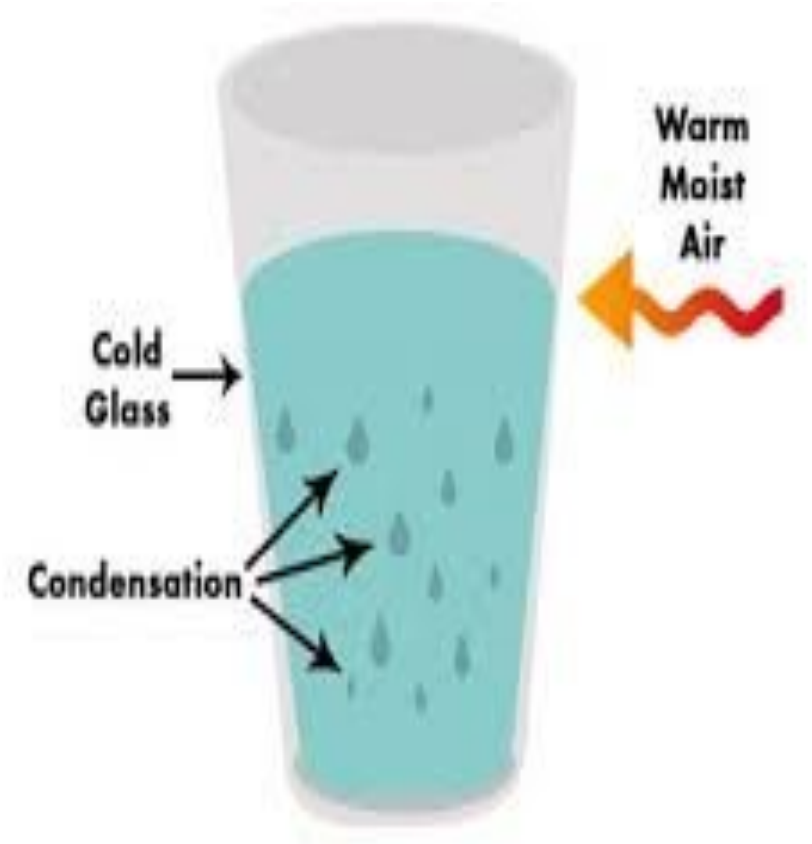
- **learn about changes of water vapour into condensation.**
- **appreciate how rain, dew, fog, frost, hail and snow are formed.**

RECAPITULATION

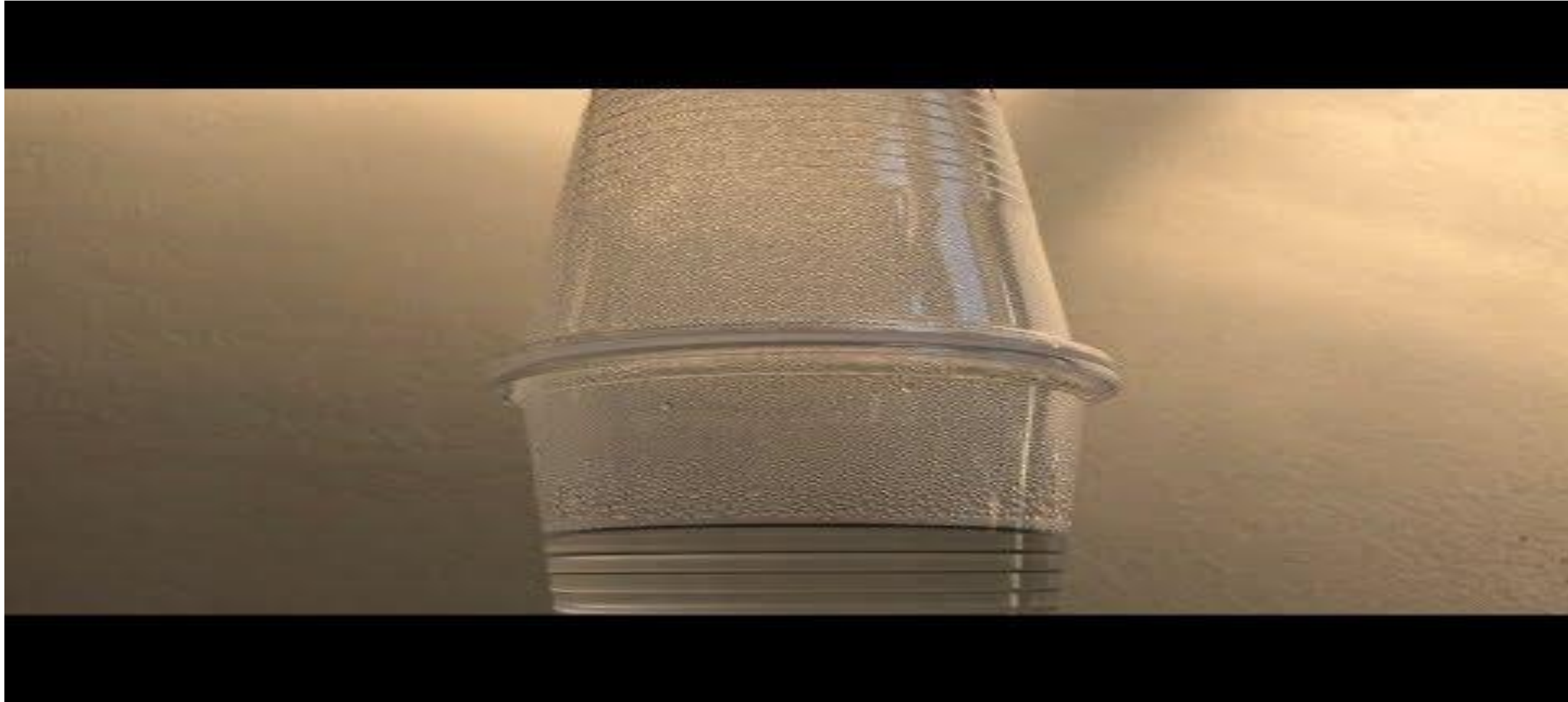
- **How much portion of the Earth surface is covered up with water?**
- **Water is not found only in rivers, seas, and oceans, but it is also found _____.**
- **What do you understand by term ‘evaporation’?**
- **Evaporation takes place faster, when the temperature of the surroundings is high. (True/False)**

CONDENSATION

- When water vapour cools down it changes into drops of water. This is called as Condensation.



CONDENSATION



SOME EXAMPLES OF CONDENSATION

- Condensation in Air Conditioning
- Dew on the Grass
- Visible Breath During Winter
- Steamy mirror in your bathroom



FORMS OF WATER IN NATURE

- However, in nature, we can see water in different forms.



Fog



Frost



Dew



Hail



Snow

FOG

- This occurs when thick clouds of tiny drops of water form just above land or water.



FROST

- A covering of tiny ice crystals on a cold surface formed from the water vapor in the air.



DEW

- The water droplets that we find in the morning on leaves and usually in spring or winter when the air is cold.



Ac bka

HAIL

- Hail is formed when drops of water freeze together in the cold upper regions of thunderstorm clouds.
- These chunks of ice are called hailstones.



SNOW

- **Soft, white flakes of ice that fall from the sky to the earth.**



SUMMARY

- **Condensation is the process where water vapor becomes liquid.**
- **Clouds are an accumulation of tiny water droplets/ice particles that are so small and light in weight.**
- **After condensation the water vapour or the moisture in the atmosphere takes one of the following forms — dew, frost, fog, snow and hail.**

QUIZ!



1. Process in which water vapour cools down and changes into drops of water.

Ans: Condensation

2. _____ appear as fine droplets on leaves of plants and grass on a winter morning.

Ans: Dew drops

3. Frozen dew is called _____.

Ans: frost

HOMework

- **Early on winter mornings we see drops of water on parked cars and plants. Why?
[Write the answer in your notebook]**

LEARNING OUTCOME

The learner will be able to :

- **learn about changes of water vapour into condensation.**
- **appreciate how rain, dew, fog, frost, hail and snow are formed.**

THANKING YOU
ODM EDUCATIONAL GROUP