

MODULE-8

CLASS-IX

MATTER IN OUR  
SURROUNDINGS

# RECAPITULATION

- What is evaporation?
- What are the factors which affects the rate of evaporation?
- Why increased surface area make evaporation faster?

# Evaporation cause cooling

- A liquid for evaporation takes latent heat of vaporisation from its surroundings and as surroundings lose heat so it leads to cooling.

# Nail polish remover cools the hand!



# Sprinkle water and cool down!



# Water kept in earthen pot cools down. How?



**Desert cooler cools better on a hot dry day!**



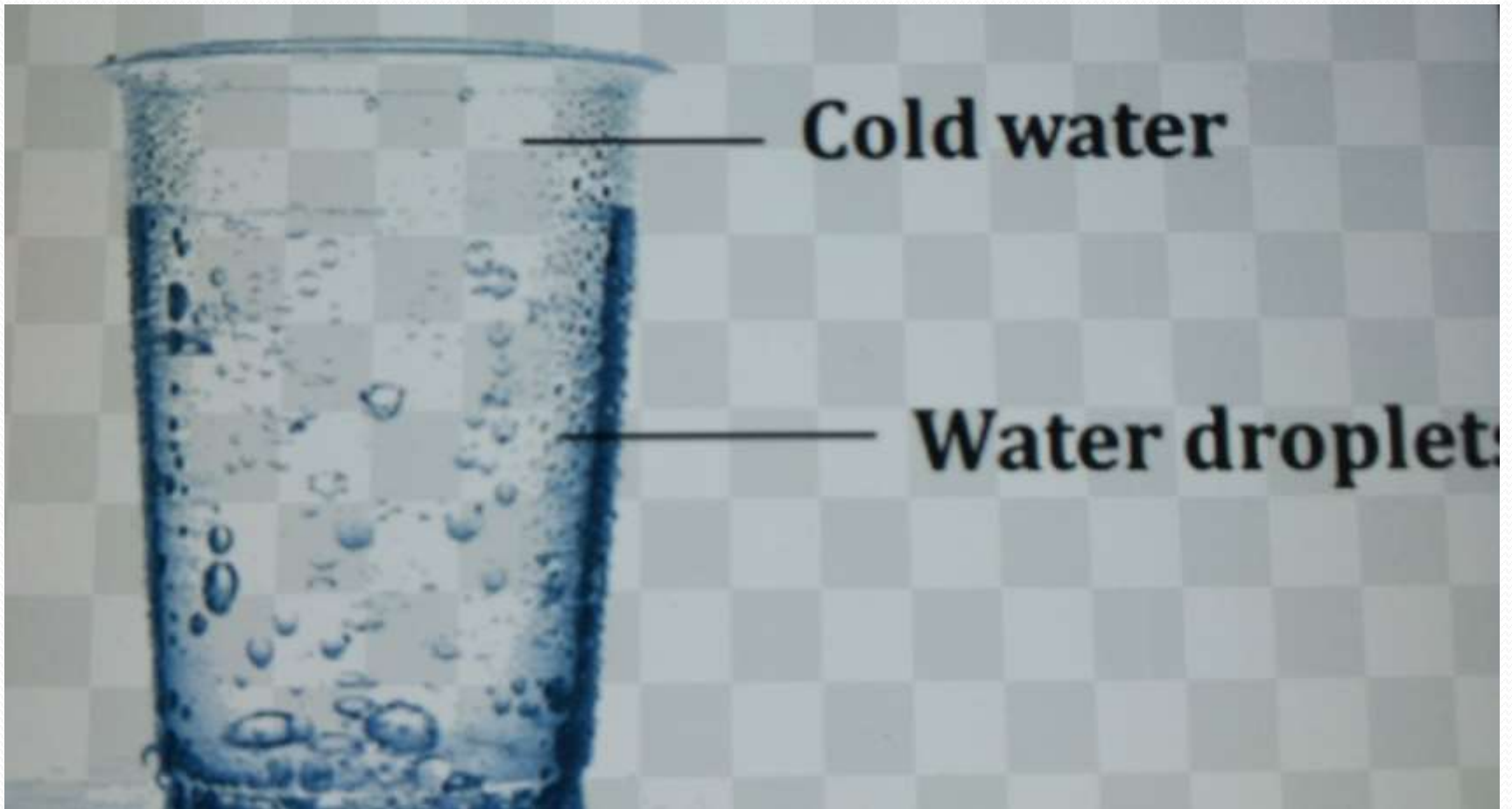
# Perspiration maintains our body temperature



# Wear cotton clothes in summer.



# Are water vapors present in air?



# Fourth state of matter!

- Plasma is known as fourth state of matter.
- It is a mixture of free electrons and ions.
- Plasma occurs naturally in the star which is created due to high temperature .
- The fluorescent tubes and neon sign bulbs are also consists of plasma.

# Bose-Einstein Condensate

- This is the fifth state of matter for which calculations were done by Indian scientist S.N Bose in 1920 and based on these calculations Albert Einstein predicted its existence.
- It is obtained by cooling a gas of extremely low density to super low temperatures

# HAPPY LEARNING!

