

MATTER IN OUR SURROUNDING

SUBJECT-CHEMISTRY

CHAPTER NO-01

CHAPTER NAME-MATTER IN OUR SURROUNDING

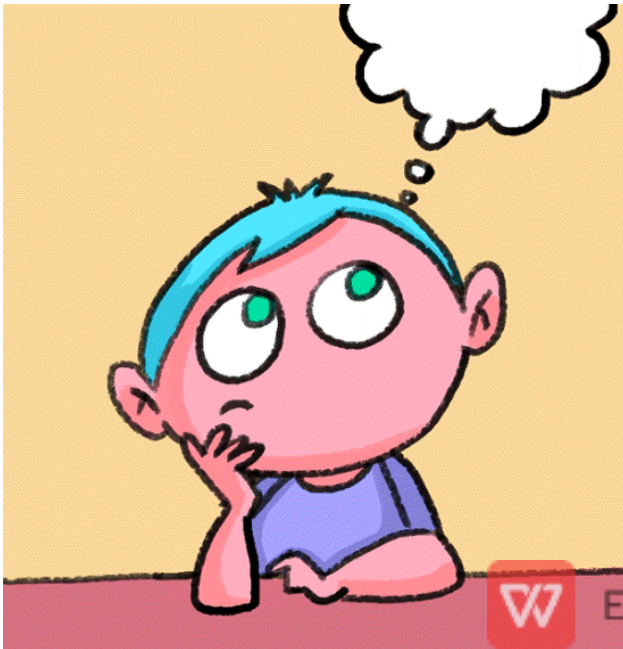
PERIOD-6

CHANGING YOUR TOMORROW



LEARNING OBJECTIVE

- Students will be able to
- Familiarise with the scales of temperature.
- They would also know of the two special states of matter (Plasma and BEC)



Edit with WPS Office

SCALES OF TEMPERATURE

- CELCIUS SCALE
- KELVIN SCALE
- FAHRENHEIT SCALE
- RELATIONSHIP BETWEEN DIFFERENT SCALES OF TEMPERATURE ARE AS FOLLOWS.
- $K = 0C + 273$
- $C = \frac{5}{9}(F - 32)$
- $F = \frac{9C}{5} + 32$



PLASMA

- PLASMA IS THE 4TH STATE OF MATTER USUALLY COMPOSED OF IONISED GASES.
- IT IS A MIXTURE OF FREE ELECTRONS AND IONS.
- THE GLOWING OF THE SUN AND THE STARS ARE DUE TO THE PLASMA.
- THE FLUORESCENT TUBES AND THE NEON SIGN BULBS DUE TO PLASMA



BEC(BOSE–EINSTEIN CONDENSATE)

- **BEC IS THE 5TH STATE OF MATTER.**
- **IT WAS DISCOVERED BY S.N. BOSE AND ALBERT EINSTEIN.**
- **THEY HAVE VERY LOW ENERGY AND BEHAVES LIKE ICE**
- **THEY EXIST IN SUPER COOL TEMPERATURE OF 0k.**
- **THEY ARE ALSO KNOWN AS BOSONS.**



HOME ASSIGNMENT

- WHAT IS THE NORMAL BODY TEMPERATURE OF THE HUMAN BODY IN DEGREE CELCIUS. CONVERT IT INTO DEGREE FAHRENHEIT
- MENTION THE PHYSICAL STATE OF MATTER AT i) 250 DEGREE CELCIUS
ii) 25 DEGREE CELCIUS
- WRITE A SHORT NOTE ON PLASMA
- EXPLAIN BEC.



THANKING YOU

ODM EDUCATIONAL GROUP



Edit with WPS Office