

# MATTER IN OUR SURROUNDING

**SUBJECT-CHEMISTRY**

**CHAPTER NO-01**

**CHAPTER NAME-MATTER IN OUR SURROUNDING**

**PERIOD-2**

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**CHANGING YOUR TOMORROW**

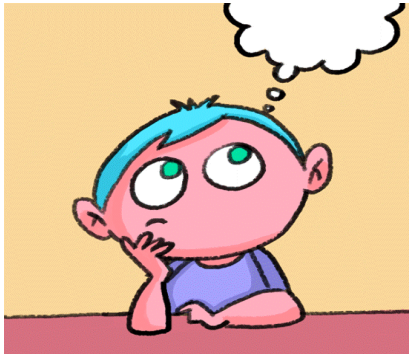
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## LEARNING OBJECTIVE

Students will be able to

- Understand various physical states of matter.
- Know of the characteristics of each states of matter.



## STATES OF MATTER

- BASICALLY WHEN WE LOOK AROUND WE FIND MATTER IS BROADLY DIVIDED INTO THREE STATES.
- *SOLID STATE*
- *LIQUID STATE*
- *GASEOUS STATE*
- APART FROM THESE THERE ARE TWO OTHER STATES WHICH WILL BE DISCUSSED. THEY ARE
- PLASMA
- BEC ( BOSE EINSTEIN CONDENSATE)



## **SOLID STATE**

- **THE PARTICLES OF MATTER ARE VERY TIGHTLY PACKED.**
- **THE PARTICLES OF MATTER HAVE STRONG INTERMOLECULAR FORCE OF ATTRACTION IN BETWEEN THEM.**
- **THE SOLID HAVE DEFINITE SHAPE , SIZE AND VOLUME.**
- **THE PARTICLES OF SOLID DO NOT SHOW THE PROPERTY OF COMPRESSIBILITY.**
- **THE PARTICLES OF SOLID DO NOT SHOW THE PROPERTY OF FLUIDITY.**
- **THE PARTICLES OF SOLID DO NOT SHOW THE PROPERTY OF DIFFUSION.**
- **THE PARTICLES OF SOLID HAVE NEGLIGIBLE KINETIC ENERGY.**



## LIQUID STATE

- THE PARTICLES OF LIQUID ARE LOOSELY PACKED.
- THE PARTICLES OF LIQUID HAVE LESS STRONG INTERMOLECULAR FORCE OF ATTRACTION IN BETWEEN THEM.
- THE LIQUIDS HAVE DO NOT HAVE DEFINITE SHAPE , SIZE BUT HAVE DEFINITE VOLUME.
- THE PARTICLES OF LIQUIDS CAN BE COMPRESSED SLIGHTLY.
- THE PARTICLES OF LIQUIDS SHOW THE PROPERTY OF FLUIDITY.
- THE PARTICLES OF LIQUIDS SHOW THE PROPERTY OF DIFFUSION.
- THE PARTICLES OF LIQUIDS HAVE KINETIC ENERGY.



## **GASEOUS STATE**

- **THE PARTICLES OF GASEOUS MATTER ARE VERY LOOSELY PACKED.**
- **THE PARTICLES OF GASES HAVE NEGLIGIBLE INTERMOLECULAR FORCE OF ATTRACTION IN BETWEEN THEM.**
- **THE GASES HAVE NO DEFINITE SHAPE , SIZE AND VOLUME.**
- **THE PARTICLES OF GASES CAN BE EASILY COMPRESSED.**
- **THE PARTICLES OF GASES SHOW THE PROPERTY OF FLUIDITY.**
- **THE PARTICLES OF GASES SHOW THE PROPERTY OF DIFFUSION.**
- **THE PARTICLES OF GASES HAVE HUGE KINETIC ENERGY.**



## HOME ASSIGNMENT

- **WHAT DO YOU MEAN BY COMPRESSIBILITY? EXPLAIN WITH REFERENCE TO THE GASES.**
- **DEFINE DIFFUSION.GIVE EXAMPLES**
- **EXPLAIN WHY GASES DIFFUSES VERY FASTS AS COMPARED TO THE LIQUIDS.**



THANKING YOU

**ODM EDUCATIONAL GROUP**



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