

WELCOME TO THE ONLINE CLASS

SESSION NO.: 1

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 5

CHAPTER NAME: SOLIDS, LIQUIDS AND GASES

**SUB TOPIC: INTRODUCTION, WHAT IS MATTER MADE UP OF
AND STATES OF MATTER**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

- understand and define the matter
- identify the different states of matter

LET US THINK....



- **Look around your room, what can you find?**
- **Can you find differences between the object you see around yourself?**
- **How our pens and pencils are made up of?**
- **Can we catch and hold the smoke of a lighted agarbatti?**

THINGS AROUND US:



WOODEN CHAIR



UTENSILS



PEN



BOOKS



CD's



WATER BOTTLES

MATTER

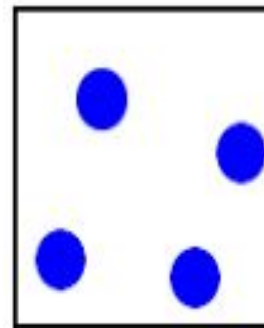
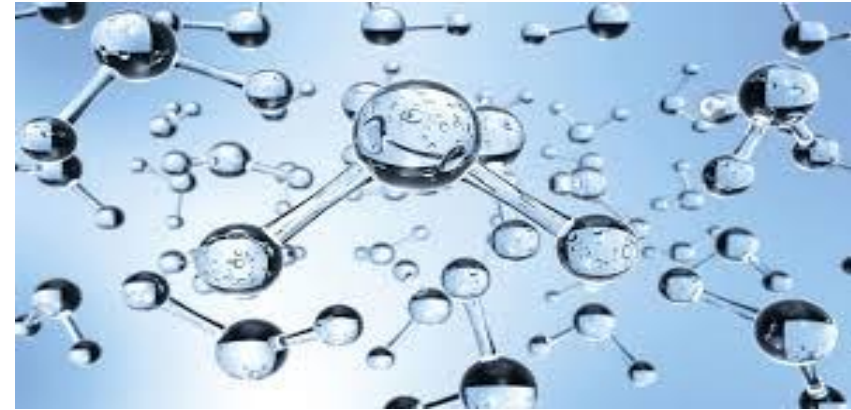
- The things around us are made up of different materials.
- Anything that occupies space and has a weight is called as matter.

Matter are the things which we find around us.

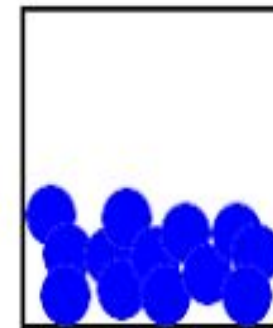


WHAT MATTER IS MADE UP OF?

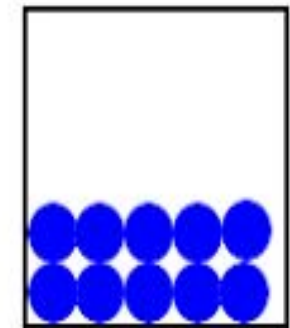
- All matter in the world is made up of molecules.
- Molecules are the tiny particles that make up matter.
- Molecules are smallest substances in matter that can exist independently.
- EX: A drop of water is made up of molecules of water.



Gas



Liquid



Solid

MATTER EXIST IN THREE STATES

- **SOLID**
- **LIQUID**
- **GAS**

STATES OF MATTER



GAS



LIQUID



SOLID

SOLID STATE

- Hold your pencil / pen tightly.
 - Touch your study table.
 - Try to hold your chair .
 - We can feel its hardness.
- these all are **Solid**.



PROPERTIES OF SOLID STATES

- Solids have fixed shape and definite volume.
- **VOLUME:** the space occupied by a solid, liquid and gas.
- Solids can be held because the molecules in solids are tightly packed.
- Molecules of solids cannot move around.
- Shape of some solids can be changed by using force.
EX: press a rubber ball or cans



SUMMARY

- **All these things around us are made of different materials.**
- **Anything that occupies space and has weight is known as matter.**
- **Matter is made up of molecules.**
- **Molecules are the smallest substances in matter that can exist independently.**
- **Matter exist in three states - solid, liquid and gas.**
- **Solid has a fixed shape and a definite volume and can be held because the molecules in solids are tightly packed.**



Q1. Which state has a fixed shape and volume?

ANS: Solid

Q2. Smallest substances in matter are _____.

ANS: Molecules

Q3. In how many states does matter occurs?

Ans: 3 (solid, liquid and gas)

Q4. How are the molecules of solid are held together?

Ans: Molecules are held tightly in solid.

HOMework

- **Write the difficult words in your notebook.**

LEARNING OUTCOME

The learner will be able to:

- understand and define the matter
- identify the different states of matter

THANKING YOU
ODM EDUCATIONAL GROUP