

# **WELCOME TO THE ONLINE CLASS**

**SESSION NO.: 2**

**CLASS: 4**

**SUBJECT: SCIENCE**

**CHAPTER NUMBER: 5**

**CHAPTER NAME: SOLIDS, LIQUIDS AND GASES**

**SUB TOPIC: STATES OF MATTER – LIQUID AND GAS**

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**CHANGING YOUR TOMORROW**

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# LEARNING OBJECTIVE

**Learner will able to:**

- **Identify different states of matter**
- **Compare their properties**

# RECAPITULATION

- All matter in the world is made up of \_\_\_\_\_.
- Which substance in matter exist independently?
- Things that occupies space or weight are called\_\_\_\_\_.
- How many different states of matter do we have?
- Can we change the shape of solid by applying force?
- How are the molecules in the solid are packed?

# LIQUID

Can we hold these things?



**juice**



**milk**

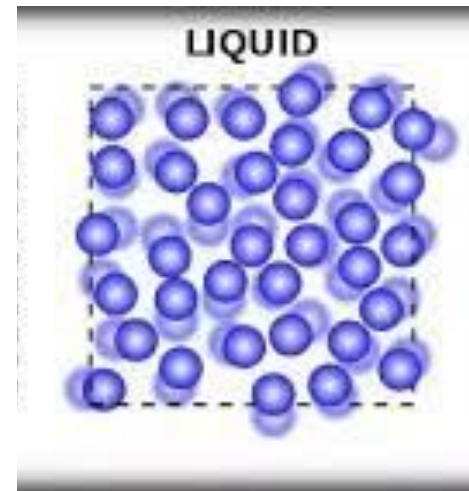


**water**

**No! because it does not have fixed shape.**

# PROPERTIES OF LIQUID STATE

- Liquid have no fixed shape.
- Liquid can be poured into vessels or containers.
- Liquid has loosely packed molecules , they can move around or flow easily.
- Liquid has fixed volume.
- When liquid is inside a container, it will take its shape.



# AIR AROUND US

- Can you see the smoke around you after you light an agarbatti ?
- Can you catch it air around you?



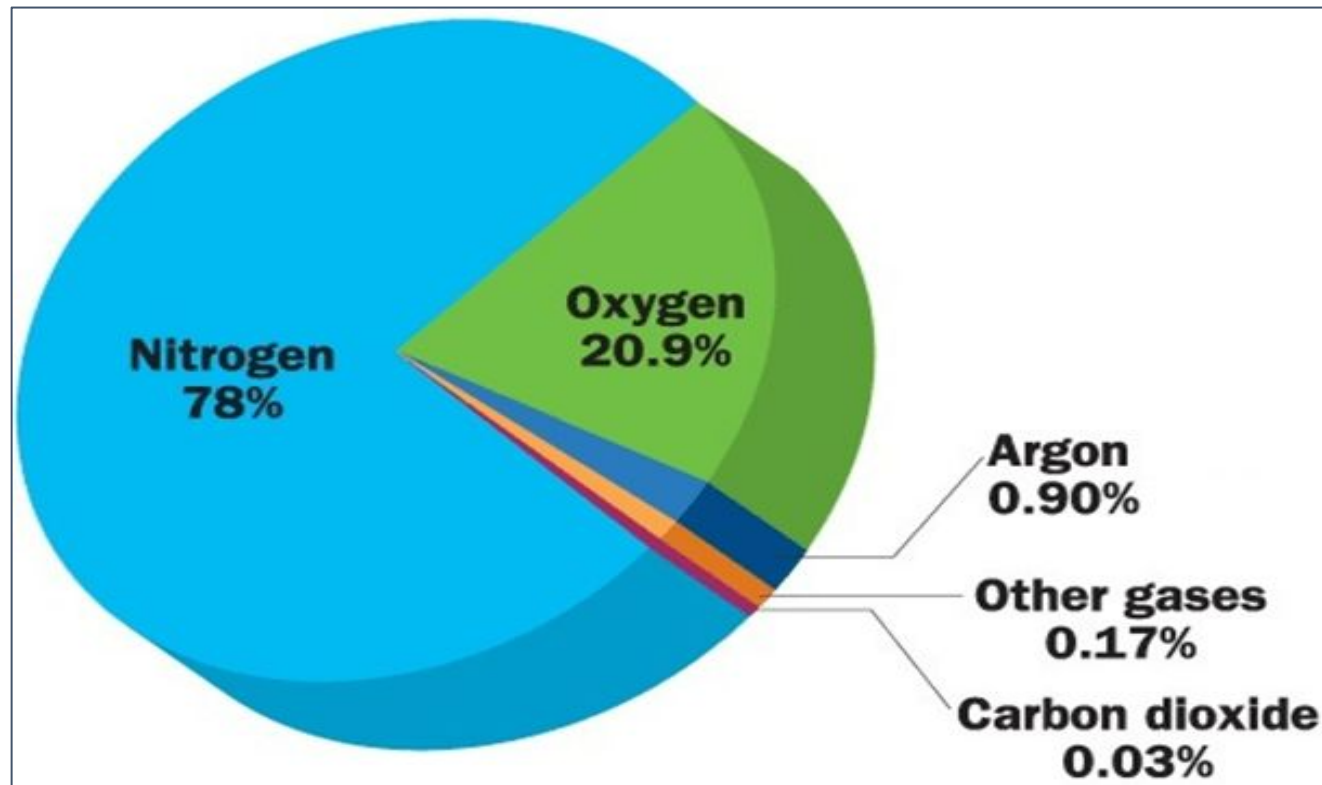
**No! we can not hold air!!**



# GASES

**Air is a mixture of all gases.**

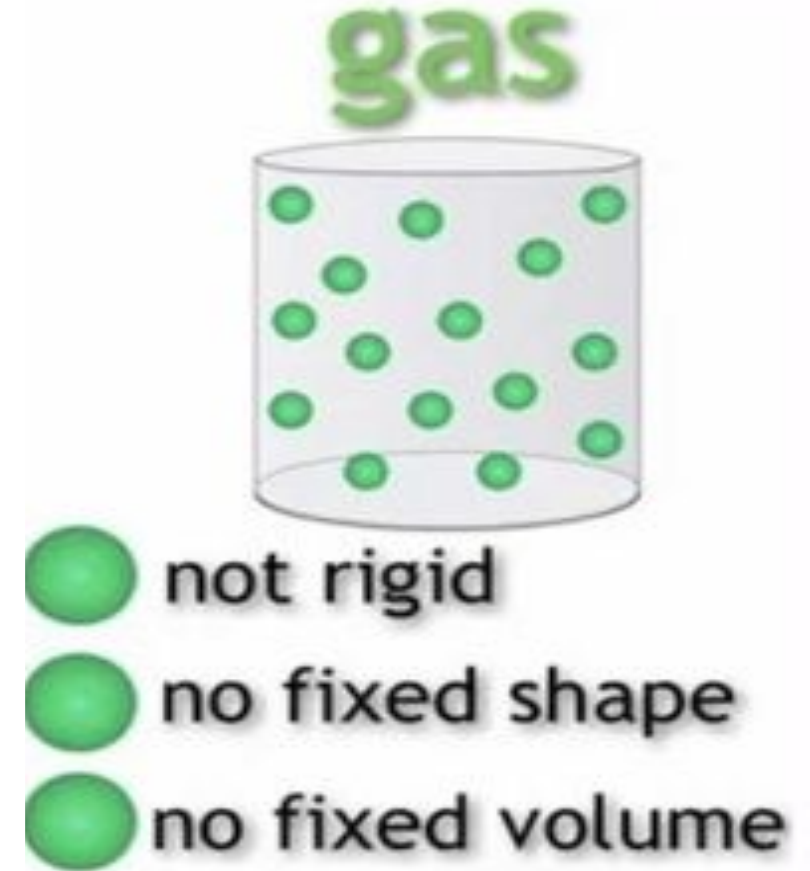
- **Gas, one of the three fundamental states of matter, with distinctly different properties from the liquid and solid states.**





# PROPERTIES OF GASEOUS STATE

- Molecules of air are loosely packed and can flow easily.
- Gases have no fixed shape and volume.
- Gases can easily compressed.
- Gases can fill the space of vessel, and flow more easily than liquids.





# THINGS WHICH CHANGES ITS SIZE WHILE FILLING THE GAS



**AIR FILLING INSIDE THE BALLOON**



**AIR FILLING INSIDE THE FOOTBALL**



**SPRAY OF PERFUME  
INSIDE THE ROOM**

# SUMMARY

- **Liquid can be poured into vessels or containers.**
- **Liquid has loosely packed molecules , they can move around or flow easily.**
- **Air is a mixture of all gases,Oxygen, Nitrogen, Argon, Carbon dioxide and other gases.**
- **Gases can fill the space of vessel, and flow more easily than liquids.**
- **The particles of solid are closely packed and occupy less space while particles of gases are loosely packed and occupy the complete space available.**

# **HOMework**

- **Draw the picture showing the molecular arrangement of the different states of matter.**

<https://www.educandy.com/site/resource.php?activity-code=b9824>

**Play and understand!!!!**

# LEARNING OUTCOME

**The learner will be able to:**

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

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**