

# **States of Matter**

A Fill	in the blo	anks.			
		Attractive forces Atoms, molecules	,		
<ul> <li>gas Matter Atoms, molecules Solute, solvent Condensation</li> <li>1 is anything that has mass and occupied space.</li> </ul>					
2. Matter is	2. Matter is made up of tiny particles called and				
3 is the amount of space that matter takes up.					
4. There a	re	state of matter.			
5. In a solution of sugar and water, sugar is and water is					
6. The molecules of matter are held together by					
7. Atoms and Molecules are so small that we cannot see them with the					
8. In solid directly change into a gas state.					
9 is the opposite of evaporation.					
10. Molecules in can move around freely.					

## B Classify the object into correct state of matter.

Car, Milk, Balloon, Ice cube, Book, Water-vapour, Ice-cream, Soup, Clouds, Rock, Banana, Oxygen, Basketball, Smoke, Paint, Steam, Calculator, Oil, Carbon-dioxide, Keys, Ocean, Wood.

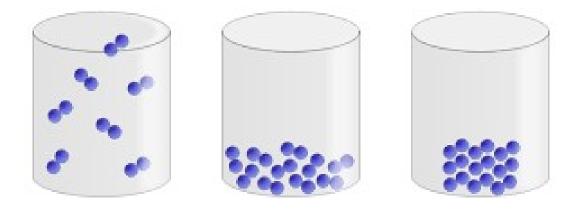
Solid	Liquid	Gas

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### C State true or false.

- 1. Molecules in a gas are less tightly packed than solids.
- 2. Camphor changes directly into solid state.
- 3. Salty water is an example of a solution.
- 4. Liquids take the shape of a container they are poured in.
- 5. Matter cannot change from solid to liquid.
- 6. Sugar and salt are insoluble in water.

# D Identify the pictures and write difference in below box.



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# Answers

Α.

- 1. Matter
- 2. atoms, molecules
- 3. Volume
- 4. three
- 5. solute, solvent
- 6. attractive forces
- 7. naked eye
- 8. sublimation
- 9. Condensation
- 10. gas
- Β.

Solid	Liquid	Gas
Car, Book, Rock	Milk, Ice-cube, Soup,	Balloon, Water-vapour,
Banana, Calculator	Paint, Oil, Ocean	Clouds, Oxygen, Smoke
Keys, Wood	lce-cream	Steam, Carbon-dioxide

C.

- 1. False
- 2. False
- 3. True
- 4. True
- 5. False
- 6. False

#### D.

1. Gas	2. liquid	3. solid
-Have no fixed shape	-Have no fixed shape	-Have a fixed shape
-Have no fixed volume	-Have a fixed volume	-Have a fixed volume
-Can flow	-Can flow	-Cannot flow
-Cannot be touch	-Are soft to touch	-Are generally hard to touch
-In gas Molecules are	-In liquid Molecules are	
loosely packed.	less tightly packed.	tightly packed.