

Chemistry

Matter and its composition

Matter and its composition-Assignment Answers

1. Differentiate the three states of matter on the following basis:

	Property	Solid	Liquid	Gas
1	Kinetic energy	Least	More	Maximum
2	Intermolecular space	Least	More	Maximum
3	Intermolecular force of attraction	Maximum	Less	Least
4	Compressibility	Least	Little more	Maximum

2. Fill in the blanks:

- i) Solids change to liquids on heating
- ii) Process of change from liquid to gaseous state is called evaporation.
- iii) Gases have the highest kinetic energy.
- iv) Liquids and gases are also called fluid states.
- v) Matter is made up of small particles called molecules.
- vi) A natural substance existing in three states of matter is water.

3. Why do naphthalene balls kept in cupboards disappear after some time ?

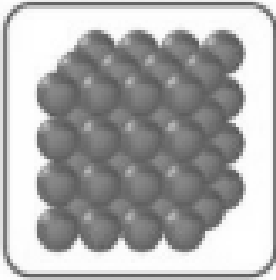
Naphthalene is a sublimable substance. When kept in the cupboard, after some time, they may absorb the heat of the surrounding and directly change into vapour state. Hence they appear to disappear after some time.

4. Identify the states of matter

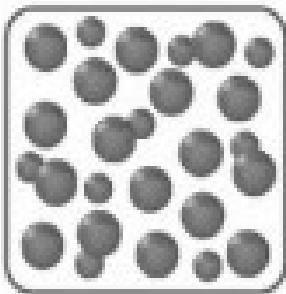
- a) Have maximum density - solids
- b) Fixed shape - solids
- c) Expands least on heating - solids

d) No definite shape or volume - gas

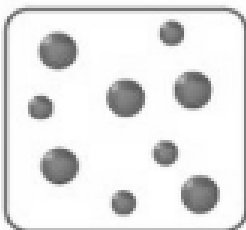
5. Draw the arrangement of molecules in solids, liquid and gases.



Solid



Liquid



Gas