

1. Matter in Our Surroundings

Que. – What are the characteristics of the particles of matter ?

Ans. - The characteristics of the particles of matter are the following.

- i. Particles of matter have space between them.
- ii. Particles of matter are continuously moving.
- iii. Particles of matter attract each other.

Que. – Write three physical state of matter.

Ans. - (i) solid

(ii) liquid

(ii) Gas



Que. – What is Evaporation?

Ans. – The phenomenon of change of a liquid into vapours at any temperature below its boiling point is called evaporation.

Que. – Give the reason for the smell of hot sizzling food reaches you several metres away, but to get the smell from cold food you have to go close.

Ans. – It is the property of matter that increasing the temperature, the particles of matter spread very faster. Thus the smell of hot food spread faster than cool food.

Que. – A diver is able to cut through water in a swimming pool. Which property of matter does this observation show?

Ans. – This observation shows that there is space between water molecules (particles of matter).

Que. – What is Fusion?

Ans – The process by which a solid get converted into liquid is known as fusion.

Que. – What is Solidification?

Ane. – The process by which a liquid get converted into solid is known as solidification.

Que. – What is sublimation?

Ane. – The process by which a solid get converted into gas directly without being converted into its liquid form is known as sublimation.

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Que. – What is diffusion?

Ans. – Intermixing of particles of two different types of matter on their own is called diffusion.

Que – Write one factor which influence diffusion.

Ans – Heat.

Que. – Why is the rate of diffusion of liquids is higher than that of the solids?

Ans. – This is due to the fact that in the liquid state, particles move freely and have greater space between each other as compared to particles in the solid state.

Que – Write the factors which influence the rate of evaporation.

Ans – There are four factors which influence the rate of evaporation.

- i. An increase of surface area.
- ii. An increase of temperature
- iii. A decrease in humidity.
- iv. An increase in wind speed

Que – Write the property of solid liquid and gas .

Ans –

Solid:

- i. Solid have a definite shape.
- ii. Solid have a fixed volume.
- iii. It cannot be changed its shape.
- iv. Inter molecular force are strongest in solid.

Liquid;

- i. Liquids have no fixed shape.
- ii. Liquids flow and change shape so they are not rigid.
- iii. They are not compressed.
- iv. Inter molecular force are less strong in liquids.

Gas:

- i. Gases neither have a definite.
- ii. They can do compressed.
- iii. Gas can also flow.
- iv. Inter molecular force are large space than solid and liquid.

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