

**Grade 4
Science****States of Matter****A Choose the correct option.**

- The process by which a solid directly change into gas.
a. Melting b. Freezing c. Condensation d. Sublimation
- Which of the following is soluble in water?
a. Salt b. Sand c. Stone d. All of these
- Janvi dissolved some salt in water. He obtained salty water. What is the solvent in the salty solution?
a. Salt b. Water c. Salty Water d. All of these
- The force of attraction between the molecules of liquid are
a. Very weak b. Very strong c. Not very strong d. None
- The substance whose shape can be changed by applying force
a. Milk b. Wood c. Air d. Water
- What solvent is used to make a salt solution?
a. Salt b. Sugar c. Soda d. Water
- Which properties define matter?
a. Colour and size b. Shape and colour
c. Volume and mass d. Mass and space

B Find odd one out.

- Table, Ice, Sugar, Steam.
- Milk, Oil, Pencil, Water.
- Smoke, Steam, Air, Juice.

C Answer in the following questions.

1. Why do clothes dry faster in summers than in winter?

2. Why the smell of room freshener spreads so quickly?

3. Why does a liquid take the shape of the container it is poured in?

D Answer in one word.

1. A mixture of solute and solvent. _____

2. He was a Scottish scientist who proposed the Brownian motion theory. _____

3. Change of liquid state into gaseous state. _____

4. Matter is made up of these tiny particles. _____

5. It has a definite shape and volume. _____

E Give three examples of each one.

1. Soluble substance:- _____

2. Insoluble substance:- _____

Answers

A.

1. Sublimation
2. Salt
3. Water
4. Not very strong
5. Air
6. Water
7. Volume and mass

B.

1. Sugar
2. Pencil
3. Juice

C.

1. Clothes dry due to evaporation of water from the surface of clothes. During summers, the temperature is high. So, the rate of evaporation is high. Hence, wet cloths dry fastest in summer season.
2. Because room fresher is a gas form. Molecules in a gas are loosely packed. There have a large space. Also the force of attraction between molecules are very week. This allow the molecules to move around freely and spread out to fill the available space.
3. The forces between liquid particles are weaker than the forces between solid particles. This means that liquid particles are further apart and can move about more easily. Since the particles can move, the liquid can flow and take the shape of its container.

D.

1. Solution
2. Robert brown
3. Vaporisation
4. Molecules & Atom
5. Solid

E.

1. Salt, Sugar, Lemon juice
2. Chalk, Sawdust, Pebble