

Grade 4 Science

States of Matter

A Fill in the blanks.

three Volume Attractive forces naked eye sublimation
gas Matter Atoms, molecules Solute, solvent Condensation

- _____ is anything that has mass and occupied space.
- Matter is made up of tiny particles called _____ and _____.
- _____ is the amount of space that matter takes up.
- There are _____ state of matter.
- In a solution of sugar and water, sugar is _____ and water is _____.
- The molecules of matter are held together by _____.
- Atoms and Molecules are so small that we cannot see them with the _____.
- In _____ solid directly change into a gas state.
- _____ is the opposite of evaporation.
- 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

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.





Answers

A.

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

B.

Solid	Liquid	Gas
Car, Book, Rock Banana, Calculator Keys, Wood	Milk, Ice-cube, Soup, Paint, Oil, Ocean Ice-cream	Balloon, Water-vapour, Clouds, Oxygen, Smoke 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 volume -Can flow -Cannot be touch -In gas Molecules are loosely packed.	-Have no fixed shape -Have a fixed volume -Can flow -Are soft to touch -In liquid Molecules are less tightly packed.	-Have a fixed shape -Have a fixed volume -Cannot flow -Are generally hard to touch -In solid Molecules are tightly packed.