



c. liquids

d. gases

5. the substance that have the same shape as of the container are

a. solid

b. liquid

c. gases

d. none of these

**B. write True of False against the following. If false correct the statement.**

1. Water has a definite shape.

False

Corrected statement: Water has no definite shape.

Or

Solid has a definite shape.

2. Molecules in a solid are tightly packed.

True

3. Matter has mass but no volume.

False

Corrected statement: Matter has mass as well as volume.

4. A given mass of gas can be packed into a small cylinder.

True

5. Liquids take the shape of the container in which they are kept. True

**C. Match column A with those in column B**

Column A

1. Ice
2. Matter
3. Solid
4. Milk
5. Gases

Column B

- a. Molecules
- b. Hard
- c. No definite volume
- d. Solid
- e. Flow

Answers. ( 1- d ) , ( 2- a ), (3- b ), (4- e), (5- c)

**D. Answer the following questions.**

1. What is Matter?

Ans: Any substance that occupies space and has mass is called matter.

There are three states of matter:

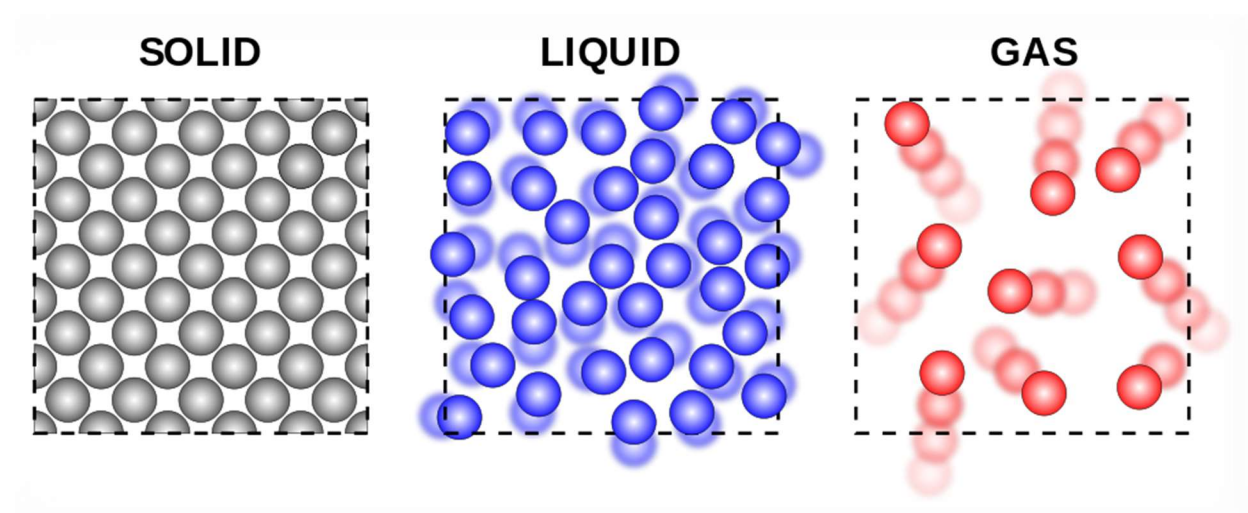
Solid, liquid, gaseous

2. How is the shape of a solid different from a liquid?

Ans: In solids, molecules are tightly packed. So they don't have space to move and therefore they have fixed shape. Whereas liquids have more intermolecular space and therefore its molecule can move around. So liquid don't have fixed shape.

3. With the help of simple diagrams show the arrangement of the molecules in a solid, liquid and gas.

Ans:



4. State two characteristic of a gas.

Ans: Characteristics of gas:

- 1) The molecules in a gas are very loosely packed and far away from each other.
- 2) They neither have a definite shape nor volume. They occupy the space available.

3) They can be compressed into a small space.

5. Identify the states of following matters:

- a. a metal rod - solid
- b. cold drink - liquid
- c. petrol fumes - gas
- d. a sugar cube - solid
- e. milk - liquid
- f. oxygen - gas
- g. wood - solid
- h. a bowl of soup - liquid
- i. an eraser - solid

Definition:

1. Matter : Anything that has mass and occupies space is called matter.
2. Atom : Atom is tiny invisible particle which cannot exist independently.
3. Molecules : Molecule is the smallest particle of the substance that exists independently and has all the properties of substance.