

H.W  
2.07.21

## Matter

The characterstics of ~~the~~ particles of matter

- \* All matter is composed of very small particles which can exist independently.
  - \* Particles of matter have spaces between them.
  - \* Particles of matter are continuously moving.
  - \* Particles of matter attract each other.
- Q. Give two examples which proves that particles of matter.

Ans 1) We can take an actual chrome alum crystal. It is a solid. The force of attraction between particles of chrome alum is large.

Q) For example, ~~the~~ breaking a chalk is easier than breaking a nail. This proves that attraction varies from particles of one substance to another.

Q. Write any 5 points of difference in properties of solid, liquid and gas.

### Solid

- \* In solid the intermolecular space and force is very much tightly packed.
- \* The molecules have very small vibration about their mean position ~~to~~ ex - small amplitude.
- \* They are generally hard and rigid.
- \* They have a definite shape and volume.
- \* They are good conductors of heat.

## Liquids:-

- \* ~~##~~ molecules are less tightly packed.
- \* the intermolecular force of attraction is less than solids.
- \* The molecules here can move from one place to another.
- \* ~~##~~ Do not have any particular shape of their own and thus acquire the shape of the vessel.
- \* A particular quantity of a liquid has a definite volume at a given temperature.

## Gas:-

- \* the force of attraction between the molecules is the least.
- \* The intermolecular space is the largest.
- \* neither have a definite shape nor a definite volume.

- 4) The molecules move independently.
- 5) worst conductors of heat.