

## (2) States of Matter

Solid: Particles have a regular arrangement. Vibrate in a fixed position.  
Liquid: Particles in a random arrangement. Move over each other.  
Gas: Particles in a random arrangement. Move quickly in all directions.

- x The attractive forces between particles are electrostatic forces.
- x They occur between positive and negative charges.
- x They become weaker the further apart the particles get.
- x They are stronger in solids and weaker in gases.

## (3) The periodic Table

The atomic number shows the number of protons.

An atom always has the same number of positive protons and negative electrons, this means it has an overall neutral charge

The Mass Number shows the number of protons and neutrons added together.

The number of neutrons = mass number — atomic number

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Trinity TV > Year > Science