

Chapter 01

Matter In Our Surroundings

- In our daily life will be looking around many different things. All these things are made up of a material known as matter.
- Early Indian scientists have classified matter as “Pancha Tattva”.
- Pancha Tattva, is five different types of matter like air, water, earth, fire and sky.
- Modern scientists have evolved with classification based on physical and chemical properties.

Characteristics of matter:

- Matter is made up of many different small particles.
- The particles of matter are not constant and they are in continuous random movement.
- Particles of matter possess kinetic energy.
- Kinetic energy will be arised due to continuous random motion of particles.
- Kinetic energy of particles increases with increase in temperature.
- Increase in temperature, makes the particles to move fastly, which in turn increases kinetic energy.
- Particles of matter possess the property of diffusion. Spontaneous intermixing of particles to give mixtures is known as diffusion.
- There always exist attractive forces between the particles of matter. These attractive forces are responsible for particles of matter to exist together.