* Light: -> 1 Light is a form of energy that enables us to see things.

(i) light toeaves in straight lines.

(iii) Light enables us to see object from which it comes or from which it is reflected.

(iv) light has dual nature such that wove as well as particle.

(V) When light falls on a surface, following may happen.

(i) Reflection (bounces back)

(i) Refraction (Passes through or bends)

(ii) Absorption (gets absorbed)

=> Ray of light: > A line drawn in the direction of propagation of light is called a ray of light.

=> Beam of light -> A group of varys of light emitted by a source of light is called a beam of

A light beam has three types:-@ Parallel beam -> A group of light rays parallel to each other is known as parallel beam of light.

(b) Convergent beam -> A group of light roys meeting at a point is called convergent beam of light. * Luminous objects > Those objects ruhich emit their own light are called luminous objects.

Example: Sun, stors, electric bulb, tube light, torch, candle.

* Non-luminous object > Those objects which do not emit light themselves but only reflect the light which falls on them are called non-luminious objects.

Exeample: - Flower, chair, table, book diamond ele.

* Nature of light - 1 . Wove theory of light 1 Particle theory of light

1 According to wave theory: -

De Light consists of electromagnetic ulaves which do not require a material medium for their propagation.

is very small (4×10-2m to 8×10-2m)

The speed of light waves is very high?

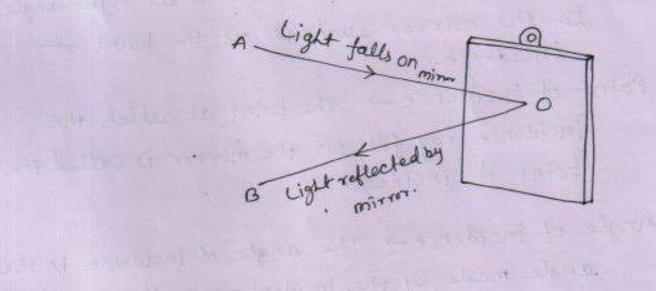
(3×108 m per second in vacuum)

(ii) According to particle theory: -Light is composed of particles which travel in a straight line at very high speed.

* Reflection of light: - Light which goes back after reflection is called reflected light.

=> Bouncing back of light mehen it strikes on a polished swiface like

=> The process of sending back the light rays which fall on the surface of an object is called reflection of light.

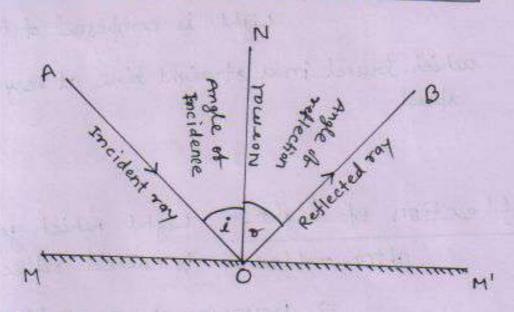


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* Reflection of light from Plane Mirror



- => Incident ray -> The ray of light which falls on the mirror surface is called the incident ray
- => Reflected vay -> The vay of light netich is sent back by the mirror is called the reflected vay.
- => Normal -> The normal is a line at right angle to the mirror ewiface at the point of incidence.
- =) Point of incidence -> The point at which the incidence ray fall on the mirror is called the point of incidence.
- => Angle of incidence -> The angle of incidence is the angle made by the incident ray with normal at the point of incidence. It is denoted by "i".
- Angle of Reflection -> The angle of reflection is the angle made by the reflected ray with the normal at the point of incidence.