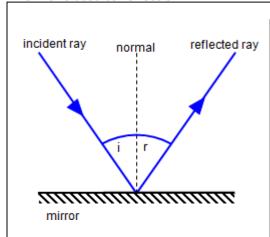
REFLECTION OF LIGHT – PLANE MIRRORS

Terms related to reflection:



Incident ray-the light ray striking the reflecting

surface

Point of incidence- the poit at which incident ray strikes the reflecting surface

Reflected ray- the light ray obtained after reflection from the surface, in the same medium of incident ray.

I – angle of incidence – angle the incident ray makes with normal.

r- angle of reflection - angle the reflected ray makes with normal.

Normal- the perpendicular drawn to the surface at the point of incidence

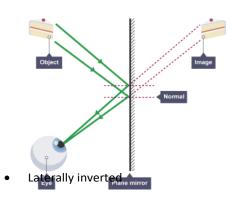
Laws of Reflection:

- 1. Angle of incidence = Angle of reflection
- 2. Incident ray, reflected ray and normal, lie in the same plane.

Characteristics of image formed by plane mirrors:

- Erect
- Virtual
- Same size as the object

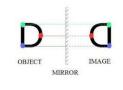
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Lateral inversion

The interchange of the left and right sides in the image of an object in a plane mirror is called the lateral inversion.



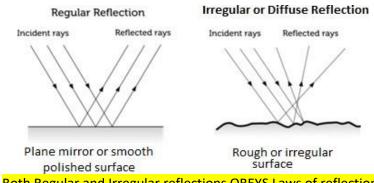


formed due to reflection or refraction formed when light falls on opaque body image is seen when light coming from the object after reflection enters the observer's eye image gives more details like, color, structure etc about the shadow formed when light falls on opaque body no light enters the eye from the shadow of the object does not provide any details about the object. It gives idea only about the shape

Reflection:

The return of light into the same medium after striking a surface is called reflection.

Kinds of Reflection:



Both Regular and Irregular reflections OBEYS Laws of reflection

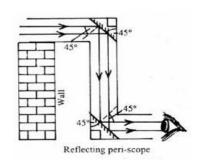
Real Image

formed due to	formed when reflected
intersection of reflected	rays meet if they are
rays	produced backwards
can be obtained on a	cannot be obtained on a
screen	screen
always inverted	always erect

Virtual Image

Uses of Plane mirror:

- 1. Looking glass
- 2. Periscope:



to see above the heads of crowd.

Kaleidoscope warfare