

SCIENCE

REFLECTION FROM PLANE MIRROR & ITS CHARACTERISTICS

Characteristics of an image formed by a plane mirror :

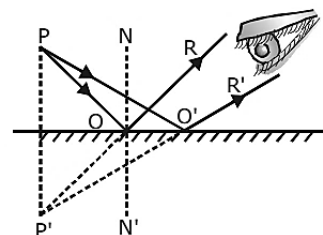
Thus, we summarize that the image formed in a plane mirror has the following characteristics :

- The image is virtual and erect.
- The image is laterally inverted.
- The image is formed behind the mirror and has the same size as that of the object.
- The image is as far behind the mirror as the object is in front of it.

❖ FORMATION OF IMAGE IN A PLANE MIRROR

is an object which is placed in front of a plane mirror AB as shown in fig. Rays PO and PO' starting from P falls on mirror then these rays are reflected in OR and O'R' directions respectively.

When the reflected rays enter the eye then they appear to diverge from P'. P' is called the image of object P. Following are the properties of the image formed by a plane mirror



Reflection by plane mirror

- Image is always virtual P N R R' O O' P' N' Reflection by plane mirror
- Image lies as far behind the mirror as the object is in front of it.
- The size of image is the same as the object. The only difference is that the right side of an object appears to be left in the image and vice versa. This effect is known as lateral inversion. Lateral inversion is shown in fig.