

# VIDYA BHAWAN BALIKA VIDYAPEETH

## STUDY MATERIAL SCIENCE

### CLASS-VI

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#### ▶ Light shadows and reflection

**Lateral inversion:** Right side of the object appears as left side in the image formed by a plane mirror. For example, if we show our right hand, image in the mirror will show as left hand.



Lateral inversion by a plane mirror

In a mirror, if you see another person, surely the other person can also see you in that mirror.

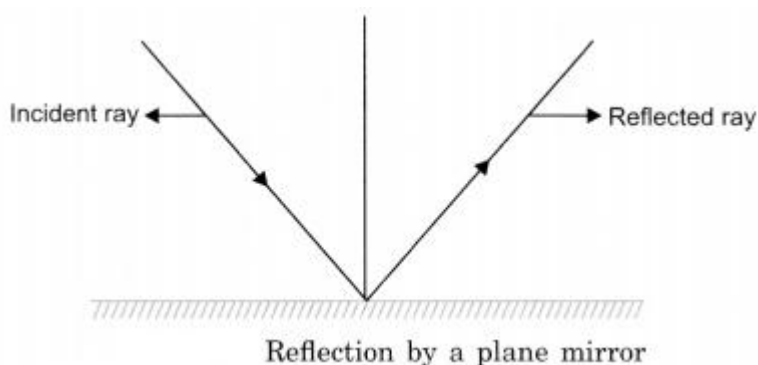
**Luminous:** Objects that give out or emit light of their own are called luminous objects.

**Mirror:** A smooth shining surface, which rebounds the light back in same or in different directions is called a mirror.

**Pinhole camera:** It is a device which forms a photograph-like image of a bright object on a screen.

**Reflection of light:** When a ray of light falls on a smooth and polished surface, light returns back in the

same medium. It is called reflection.



**Shadow:** Opaque objects do not allow light to pass through them and cast dark patches behind them. These dark patches are called shadows.

### Sources Of Light

Any object that gives out light is called a source of light. Luminous objects are also called sources of light. Sources of light can be natural or artificial (man-made) (Fig. 13.1).



(a) Firefly: natural source of light (b) Candle: artificial source of light

**Fig. 13.1** Sources of light

Examples of natural sources of light are the sun and other stars and insects like the firefly. Some artificial sources of light are candle, electric bulb, and laser.