


Shadows

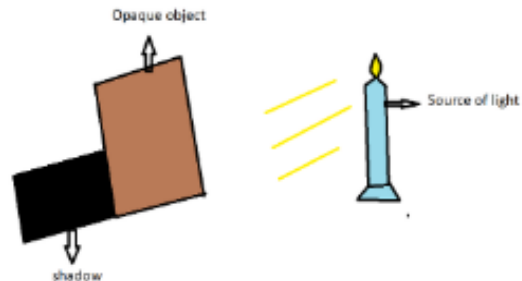
 **Shadow:** An area of darkness which is formed by an opaque object obstructing light is called a shadow. Objects can be transparent, translucent, or opaque, depending on how much light can pass through them. A shadow is formed when an opaque object blocks the light falling on it.

Shadow formation

A shadow is formed when an opaque object comes in the path of light.

A shadow needs a screen where it is formed, for example, the ground, or walls of a room or even the surfaces of buildings.

Shadows give us an idea about the shapes of different objects. Or, it can even mislead us about the shape of different objects. E.g. the shadow of a cone appears to be a triangle on the screen.



The pinhole camera

Formation of image by pinhole camera

A pinhole camera is a simple camera that consists of a light-proof box, a thin film for a screen and a small aperture or hole to allow the passage of light rays.

The light from outside enters through the small hole and forms an image on the screen that is inverted.

