



## Light, Shadows and Reflections

Q1. Explain reflection of light with help of an activity.

Ans. This activity should be done at night or in a dark room. Ask one of your friends to hold a mirror in his/her hand at one corner of the room. Stand at another corner with a torch in your hand. Cover the glass of torch with your fingers and switch it on. Adjust your fingers with a small gap between them so that you can get a beam of light. Direct the beam of the torch light onto the mirror that your friend is holding. Now, adjust the direction of the torch so that the patch of light falls on another friend standing in the room. This shows light travel along straight lines and gets reflected from a mirror.

Q2. Differentiate between transparent, translucent and opaque object.

Ans. Transparent Object

1. Substances which allows light to pass through them easily, and through which we can see clearly are called transparent objects.
2. Example: water, glass, air, cellophane paper etc.

Translucent Object

1. Substances through which light can pass partially but we cannot see through them clearly are called translucent objects.
2. Example: butter paper, greased paper, frosted glass, wax paper etc.

Opaque Object

1. Substances which do not allow light to pass through them at all are called opaque object.
2. Example: stone, metals, bricks, plastic etc.