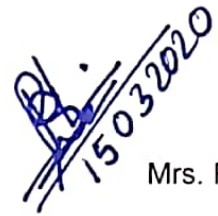


PHYSICS (GRADE-4)
CH-14 Lesson 4
How do Light and Matter Interact?

 15/03/2020

Mrs. Ruksana

1. Define the followings.

i. Transparent object

Materials that allow light rays to pass through them are transparent objects. For example, glass, water, etc.

ii. Translucent object

Materials that allow some light rays to pass through them are translucent objects. For example, wax paper, lamp shed, frosted glass, etc.

iii. Opaque object

Materials that do not allow light rays to pass through them are opaque objects. For example, wood, aluminium, carbon, etc.

2. What happens to a ray of light when it hits an object?

The light ray reflects (bounces back) or gets absorbed by the object.

3. How do we see colors?

We can see colors because objects absorb some frequencies of light and reflect colors which we see.

4. What is refraction of light?

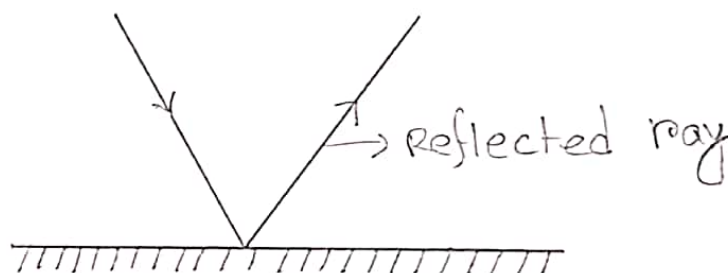
When a light ray travels from one medium to another, it changes the direction. This is called refraction.

5. Describe convex and concave lens.

Convex lens: A convex lens is thicker at the middle than the edges. It is used in magnifying glass, projector, camera, etc.

Concave lens: A concave lens is thinner at the middle than the edges. It is used in eye glasses, telescope, etc.

6. Draw a diagram to show the reflection of light.



7. Draw a diagram to show the refraction of light.

