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Types of Reflection, Irregular Reflection, Regular Reflection (For CBSE, ICSE, IAS, NET, NRA 2022)

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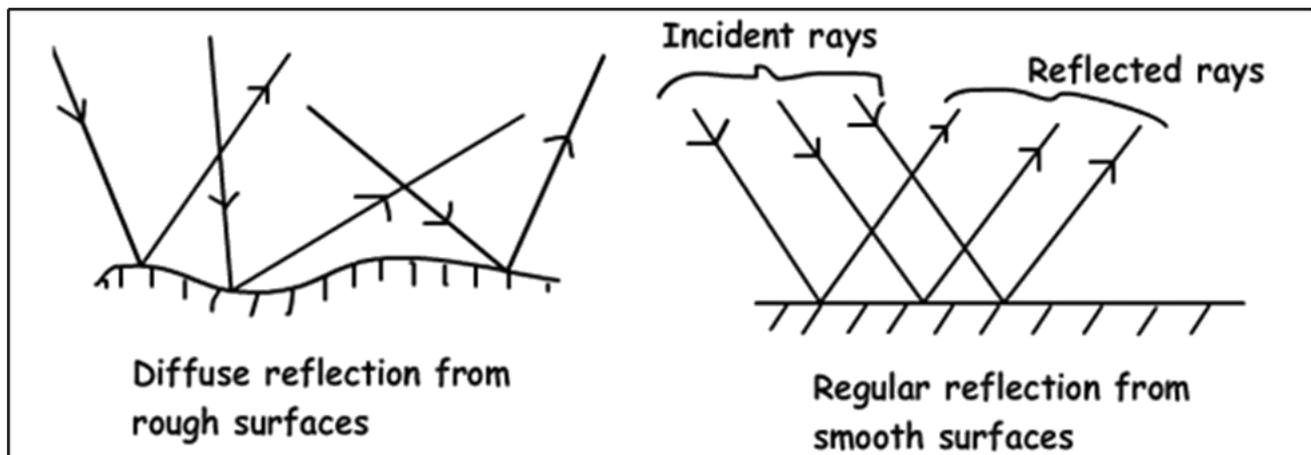
Types of Reflection

- Regular Reflection
- Irregular Reflection

Regular Reflection

- This type of reflection is produced by the plane mirrors with a smooth surface.
- In this case, the image is clear and is very much visible.
- They produced by plane mirrors are always virtual, that is they cannot be collected on a screen.
- In the case of curved mirrors with a smooth surface, we can see the images of reflection either virtually or really.
- The images produced by curved mirrors can be either real (collected on a screen and seen) , or virtual (cannot be collected on a screen, but only seen) .

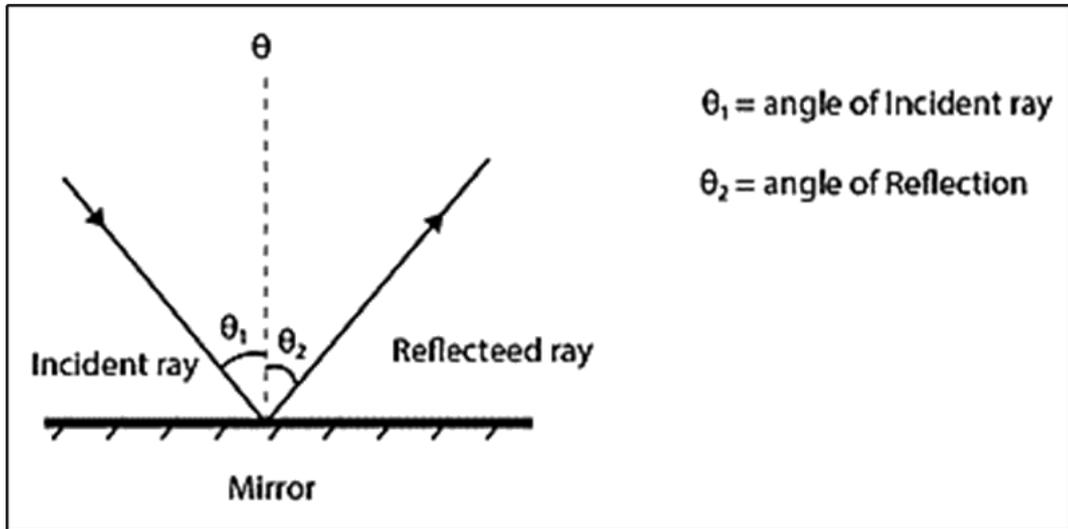
Irregular Reflection



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- Most natural surfaces are rough on the scale of the wavelength of light, and, as a consequence, parallel incident light rays are reflected in many different directions irregularly, or diffusely, unlike the mirrors.
- So, diffuse reflection helps in seeing the objects and is responsible for the ability to see most illuminated surfaces from any position.
- In both regular and irregular reflections, the laws of reflection are followed.

Law of Reflection Formula



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The law of reflection formula is given as:

$$\theta_i = \theta_r$$

Where,

- θ_i is the angle of incidence
- θ_r is the angle of reflection

Calculation of Angle of Incidence and Angle of Reflection

The angle of incidence and the angle of reflection are calculated by drawing a normal line which is perpendicular to the reflecting surface.

Differences between Regular and Irregular Reflection

S. No.	Regular Reflection	Irregular Reflection
1	It occurs when all the reflected rays from a given smooth surface are parallel for parallel incident rays.	It occurs when for a given set of incident parallel rays, the reflected rays do not remain parallel to each other.
2	This occurs from smooth surfaces like a mirror, silver spoon, etc.	This occurs from rough surfaces like wood, table, door, book, etc.
3	The image is formed and seen.	It helps to see objects. No images.

Differences between Regular and Irregular Reflection

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