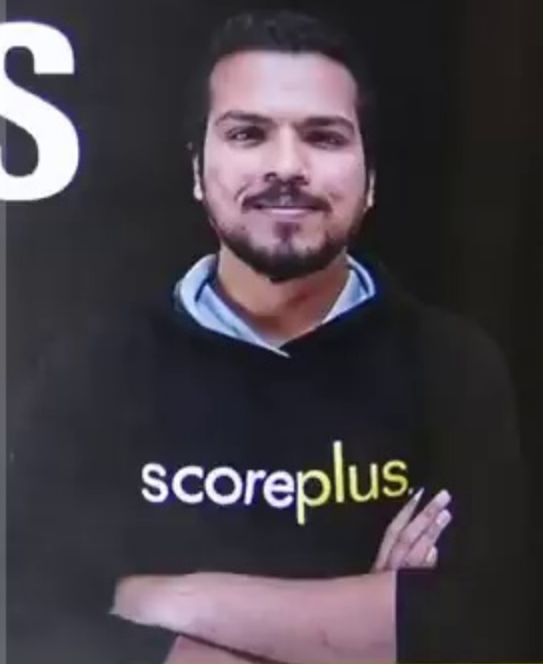


RAY OPTICS



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Ray optics

Topics

- Refraction - 1 & 2
- Lens Maker's Formula
- Combination of lens
- TIR
- Prism

Marks

#

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Ray optics

Topics

- Refraction - 1 & 2
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TIR

PRISM

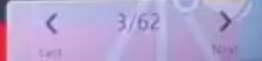
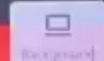
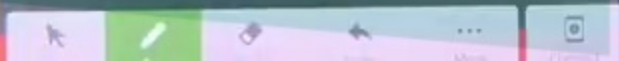
Marks distribution

3+2

2

3

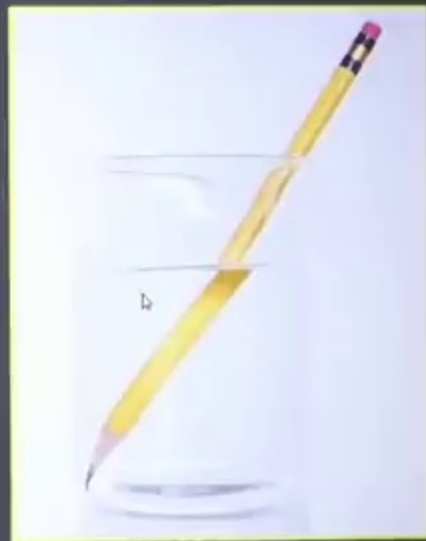
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Medium₁ → M₂ ← **Refraction of Light**

Planar
Boundary

Spherical
Boundary



scoreplus.



Refractive Index

In general speed of light in any medium is less than its speed in vacuum. It is convenient to define refractive index of a medium as, ratio of speed of light in vacuum and speed of light in given medium.



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v c

ms.

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Refractive Index

In general, speed of light in any medium is less than its speed in vacuum. It is commonly known as the refractive index of a medium as, ratio of speed of light in vacuum to speed of light in given medium

$$\text{speed in vacuum} = c$$

$$\text{speed in medium} = v_m$$

$$\mu_m = \frac{c}{v_m}$$

$$v_m = \frac{c}{\mu_m}$$

$$m_1$$

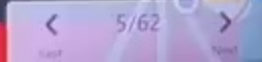
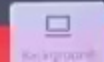
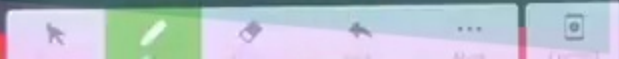
$$\mu_{m_1}$$

$$m_2$$

$$\mu_{m_2}$$

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Refractive Index

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$$\mu_m = \frac{c}{V_m}$$

$$\Downarrow$$

$$V_m = \frac{c}{\mu_m}$$

$$m_1$$

$$\mu_{m_1} >$$

$$\uparrow$$

Denser

$$V_{m_1} = \frac{c}{\mu_{m_1}}$$

$$m_2$$

$$\mu_{m_2}$$

$$\downarrow$$

Rarer

$$V_{m_2} = \frac{c}{\mu_{m_2}}$$

$$V_{m_1} < V_{m_2}$$



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