Class-12th | PHYSICS

TERM-2

scoreplus.

RAY OPTICS

1 SHOT

LIVE

DP-M

kshav Sir (IIT-Delhi)

Ray optics

Topics

- Refraction - 1 & 2
- Lens Makers Formula
- Combination of lens
- TIR
- Prism

Marks

#

Ray optics

Topics

- Refraction - 1 & 2
- Lens Makers Formula
- Combination of lens
- TIR
- Prism

Marks distribution

3+2

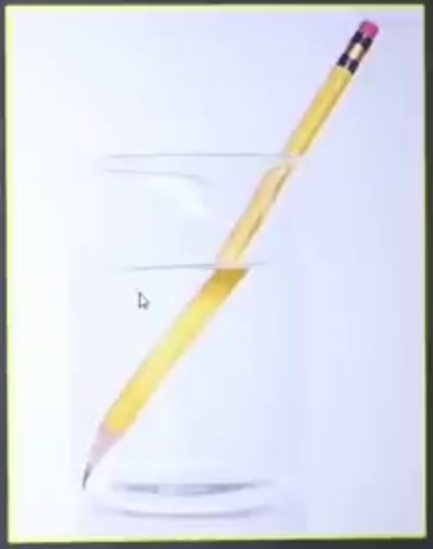
2

3

Medium$_1$ → M_2 ← **Refraction of Light**

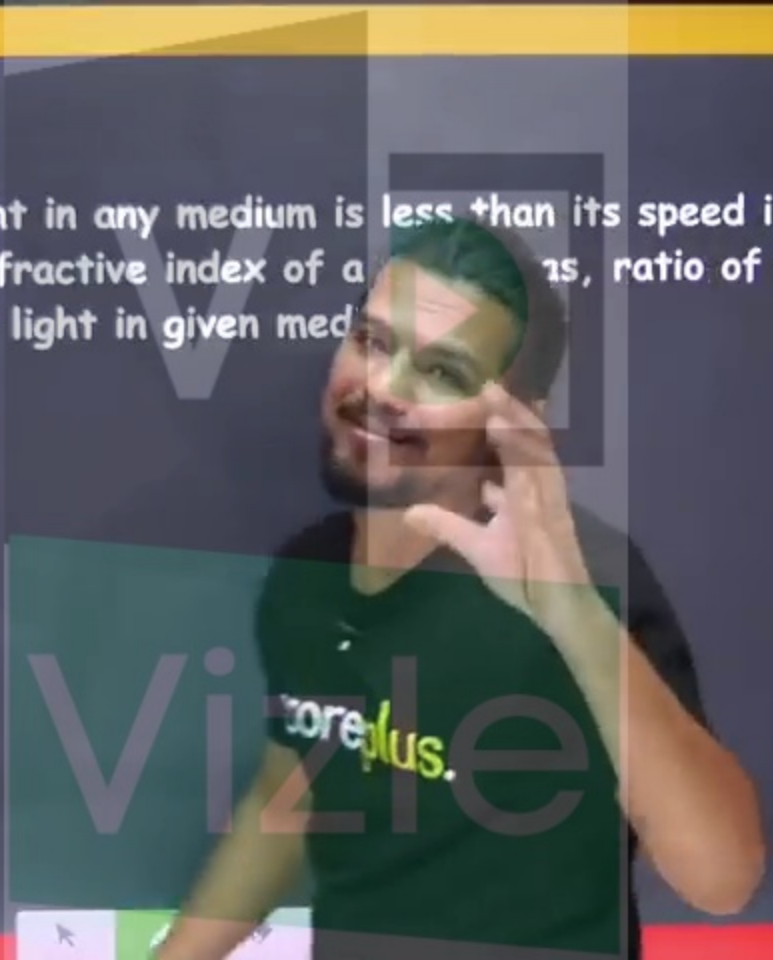
Plain Boundary

Spherical Boundary



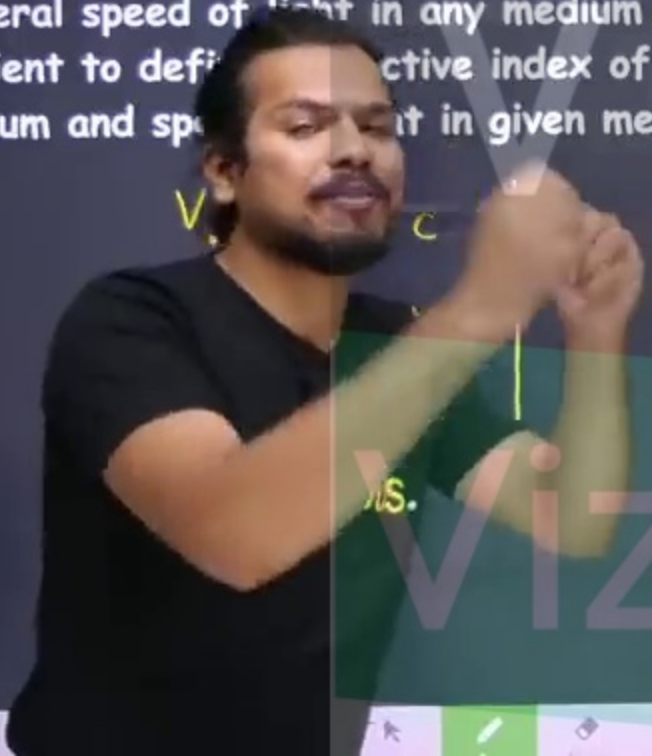
Refractive Index

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



Refractive Index

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



Refractive Index

In general ... of light in any medium is less than its speed in vacuum. It is con... refractive index of a medium as, ratio of speed of light in vac... of light in given medium

... = C

... = V_m

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

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

m_1 m_2

μ_{m_1} μ_{m_2}

Refractive Index

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

V_{vac}

V_m

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

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

m_1 $\quad$ m_2

$\mu_{m_1} > \mu_{m_2}$

μ_{m_1} ↑ Denser $\quad$ μ_{m_2} ↓ Rarer

$$V_{m_1} = \frac{c}{\mu_{m_1}} \qquad V_{m_2} = \frac{c}{\mu_{m_2}}$$

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