

Unit : Light

1. Reflection of light rays



The law of reflection:
 Angle of incidence = Angle of reflection
 $i = r$

2. Image formation by a plane mirror



Characteristics of image

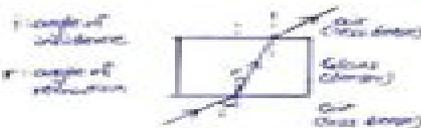
- Same size as object
 - left-right reversed (laterally inverted)
 - virtual
- the image is formed inside the mirror**

3. Virtual image is a image that cannot be projected onto a screen.

Real image is a image that can be projected onto a screen.

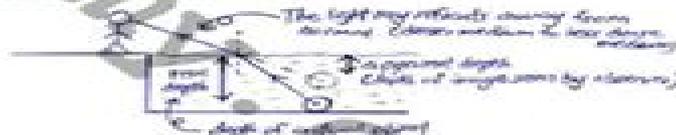
4. Refraction of light

Light changes direction when passing through different density mediums



from less dense medium to denser medium
 When a light ray travels from air to glass, it slows down and refracts towards the normal.

5. Real and apparent depth



6. Refractive index, n

a) $n = \frac{\sin i}{\sin r}$
 i = angle of incidence in vacuum
 r = angle of refraction in the substance

b) $n = \frac{\text{speed of light in vacuum } (3 \times 10^8 \text{ m/s})}{\text{speed of light in the substance}}$

c) $n = \frac{1}{\sin c}$
 c = critical angle

Igcse Physics 12 Light

Arthur James Wells



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