

# 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

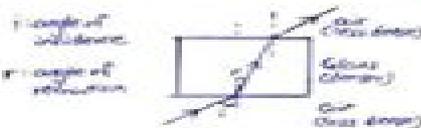
- Same size as object
  - left-right reversed (laterally inverted)
  - virtual
- the image is formed inside the mirror**

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

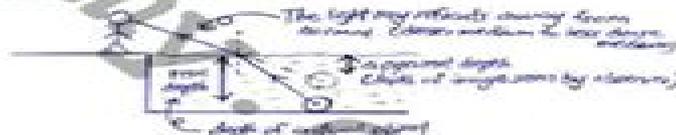
Real image is a image that can be projected onto a screen.

## 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)  $n = \frac{\text{speed of light in vacuum (300,000,000 m/s)}}{\text{speed of light in the substance}}$

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

# Igcse Physics 12 Light

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