

3.4.2 Refractions and internal reflection

Refraction

As waves move from one medium to another their wave-speed will change.

The refractive index (n) is the ratio of the speed of the wave in the medium to that in a vacuum. The refractive index is a constant for a substance.

$$n = \frac{c}{v}$$

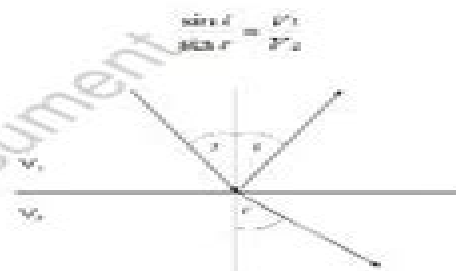
Where c is the speed of light in a vacuum.

Snell's law states:

$$\frac{V_1}{V_2} = \frac{n_2}{n_1} = \frac{\sin i}{\sin r}$$

When light moves from one medium to another:

- o Frequency of the light remains unchanged.
- o Wavelength of light changes.
- o Velocity of light changes.
- o Therefore, $v \propto \lambda$



3.4.3 Snell's Law

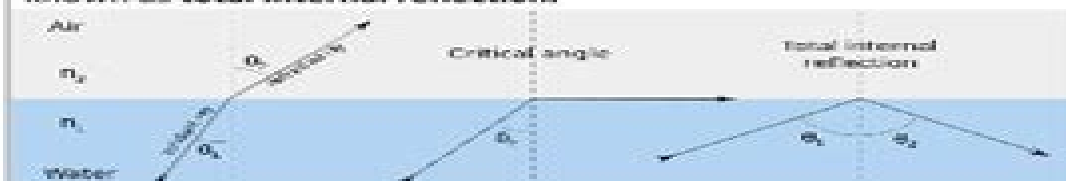
- refraction
- internal reflection

Snell's Law is a formula used to describe the relationship between the angles of incidence and refraction of light passing through a boundary between two different isotropic media, such as water, glass, or air.



Critical Angle and Total Internal Reflection

In accordance with Snell's Law, as the Angle of Incidence increases, the Angle of Refraction also increases, until the angle of refraction becomes 90° . This is known as the **critical angle**. After this point, all the light that enters reflects back out, in what is known as **total internal reflection**.



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