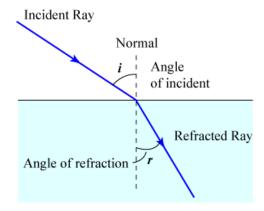
Topic 5: Refraction

Refraction:





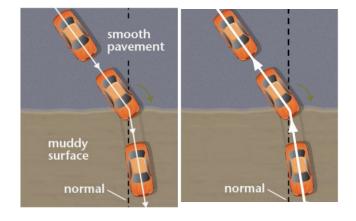
Index of Refraction:

- n = index of refraction (no units)
- c = speed of light in a vacuum = 3.00 x 10⁸ m/s
- v = speed of light in any medium (m/s)

Equation

Example: What is the speed of light in plastic if its index of refraction is 1.456?

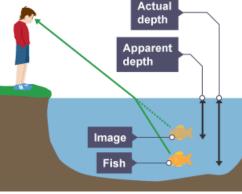
Cause of Refraction:



Refraction Phenomena & Applications

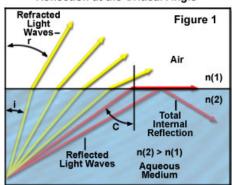


Apparent Depth:

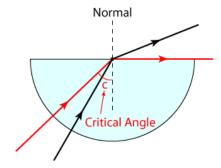


Total Internal Reflection (TIR):





The Critical Angle:



TIR Examples:

Dipersion & Rainbows:

