

Refraction Review (Quiz-Thursday)

Index of refraction: $n = \frac{c}{v}$ ($c = 3.00 \times 10^8 \text{ m/s}$)

Snell's Law: $n_i \sin \theta_i = n_r \sin \theta_r$
 ($n_{\text{air}} = 1.00 = n_{\text{vac}}$)
 medium 1 \rightarrow medium 2

Critical Angle: θ_i in order that $\theta_r = 90^\circ$

- * more dense medium to less dense medium
- * total internal reflection occurs only if the critical angle has been surpassed