

## Study Guide: Refraction & Lenses

### I. Refraction

- **Definition:** Bending of light as it passes from one medium to another.
- **Causes:** Change in the speed of light due to the change in the medium's refractive index.
- **Snell's Law:**
  - $n_1 \sin(\theta_1) = n_2 \sin(\theta_2)$
  - $n_1$ : Refractive index of the first medium.
  - $\theta_1$ : Angle of incidence.
  - $n_2$ : Refractive index of the second medium.
  - $\theta_2$ : Angle of refraction.
- **Refractive Index ( $n$ ):**
  - Ratio of the speed of light in a vacuum ( $c$ ) to the speed of light in a medium ( $v$ ):  $n = c/v$ .
  - Higher refractive index = slower speed of light in that medium.
  - Refractive index of vacuum = 1.
- **Critical Angle:**
  - The angle of incidence for which the angle of refraction is 90 degrees.
  - $\sin(\theta_c) = n_1/n_2$  (where  $n_2 > n_1$ ).
- **Total Internal Reflection (TIR):**
  - Occurs when light travels from a higher refractive index medium to a lower refractive index medium at an angle of incidence greater than the critical angle.
  - Applications: Optical fibers, prisms, diamonds.

### II. Lenses

- **Converging (Convex) Lenses:**
  - Thicker in the middle, thinner at the edges.
  - Converge light rays to a focal point.
  - Can form real or virtual images.
- **Diverging (Concave) Lenses:**
  - Thinner in the middle, thicker at the edges.
  - Diverge light rays.
  - Always form virtual, upright, and diminished images.
- **Focal Length ( $f$ ):**
  - Distance from the lens to the focal point.
  - Positive for converging lenses, negative for diverging lenses.
- **Lens Formula:**
  - $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$
  - $f$ : Focal length.
  - $v$ : Image distance.
  - $u$ : Object distance.

# Refraction And Lenses Study Guide Answer Key

**J. Gibson Winans**



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*College Physics II* J. Gibson Winans, 1963

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