

Experiment 11: Reflection and Refraction

Theory

- **Angle of incidence is equal to angle of reflection**
 - This rule is used to understand image formation by a **plane mirror**
- **Refraction** occurs when a light ray crosses a surface separating two media with different indices of refraction
 - Seen when a narrow light beam passes through a clear plastic block
- **Law of Refraction (Snell's Law)**



- $n_1 \sin \theta_1 = n_2 \sin \theta_2$
- n_1 = index of refraction of air
- n_2 = index of refraction of plastic
- should be able to show that the lines AD and BE are parallel- the beam has been displaced parallel to itself
- in general, there will be a reflected and a refracted ray
 - if the angle of incidence is greater than the **critical angle**, then there is no refracted ray, and the light suffers **total internal reflection**
 - when the angle of incidence is equal to the critical angle, the angle of refraction is 90 degrees

$$\sin \theta_c = \frac{n_2}{n_1}$$

- \rightarrow equation defining the critical angle
- $N_1 = n_2$
- N_2 = index of refraction of air (1)
- N_1 = index of refraction of prism material

Procedure: Image Formation by a Plane Mirror

- Position of object and position of image was the exact distance from the mirror
- Image is erect, virtual, and the same size

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