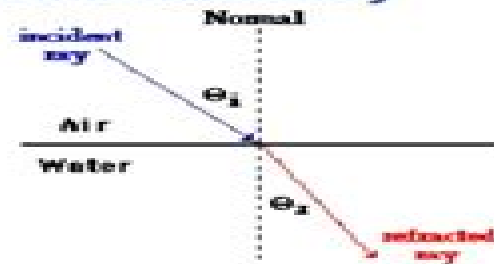
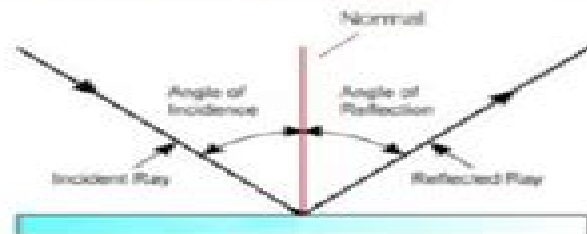


# Physics 11: Chapter 17-Reflection + Refraction

## 17.1- How Light Behaves at a Boundary

### THE LAW OF REFLECTION



- When a beam of light strikes most surfaces, it reflects in many directions.
- ❖ **Diffuse Reflection**- the reflection of light into many directions by a rough object.
- ❖ **Regular Reflection**- when a beam of light falls on a very smooth surface

### REFRACTION OF LIGHT

- Light travels at different speeds in different media.
- If the speed of one medium is slower than the speed in another, the medium is said to be more **optically dense**.
- ❖ **Refraction**- the change in direction of the light ray when passing from one medium to another (only occurs when incident ray strikes the boundary at a non-zero angle).
  - If the ray is zero (perpendicular), the ray slows down but passes straight through.
- The angle between the incident ray to the normal is  $i$
- The angle between the refracted ray and the same normal is  $r$
- When a ray enters a more optically dense medium where they travel more slowly, the refracted rays bend toward the normal.
  - Angle of refraction is smaller than angle of incidence
- When a ray enters a less optically dense medium where they travel faster, the light bends/refracts away from the normal.
  - Angle of refraction is larger than angle of incidence

# Chapter 17 Reflection Refraction Study Guide

**T. William Houk, James Poth, John W.  
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