

# Dimictic

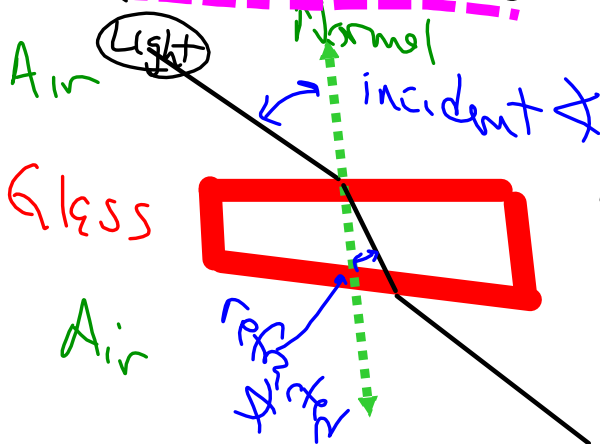
② overturns due to density

Nov 30-8:38 AM

→ Chemical analysis

→ Physical analysis.

## Refractive index



Slows - bends towards the normal

Nov 30-9:36 AM

SNELL'S LAW (Refractive Index) **RI**

$RI_{(Air)} \sin(\text{incident } \theta) = RI_{(glass)} \sin(\text{refracted } \theta)$

The diagram shows a rectangular block of glass. A light ray is incident from the air above at an angle  $\theta$  to a dashed normal line. The ray refracts towards the normal as it enters the glass. Labels include 'AR' for Air and 'Glass' for the block. The equation above the diagram relates the refractive indices and sines of the angles.

Nov 30-9:41 AM

$3 \times 10^8 \text{ m/sec}$

$RI = \frac{\text{Velocity in Vacuum}}{\text{velocity in air}}$

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$RI = \frac{\sin(\theta)_{air}}{\sin(\theta)_{substance}}$

The diagram shows a horizontal dashed pink line representing a boundary. A green circle with a dot in the center is positioned on the line, representing a point of incidence or reflection.

Nov 30-9:46 AM