Terwilliger's Physics

presents

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Mini Demos

Hurdy-Gurdy









Hurdy-Gurdy Man

RESONANCE RODS

RESONANCE RODS



Roll over image to zoom in

Cramer Tuf-Skin Taping Base for Athletic Tape, Spray Adherent for Kinesiology Tape, Gymnastics Leotards, Aerial Silks, and Kinetic Taping, Prevents Blisters, Athletic Training Supplies

by Cramer

4.4 out of 5 stars 192 customer reviews

33 answered questions

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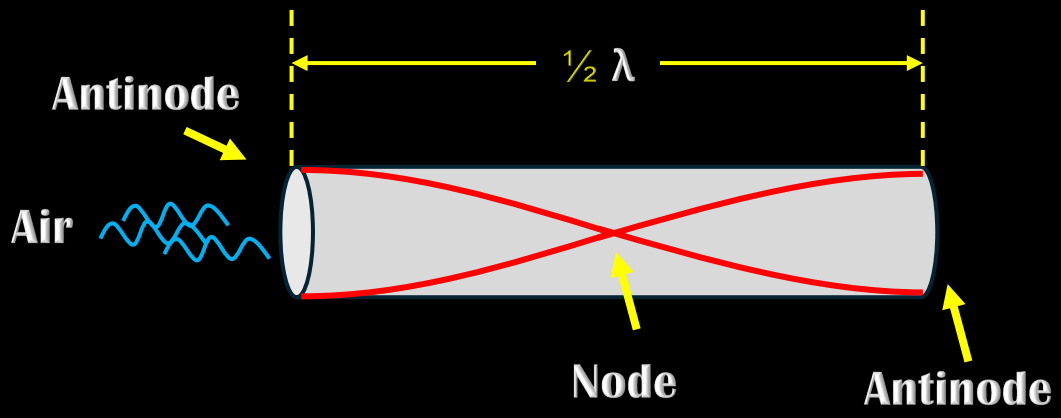
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RESONANCE

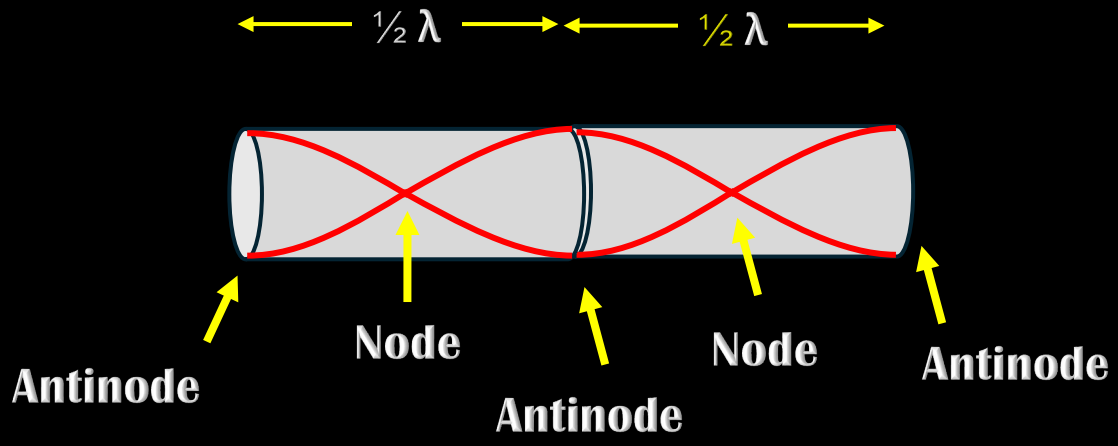
RODS



$$f_n = \frac{nV_{sound}}{2L}$$

RESONANCE

RODS



$$f_n = \frac{nV_{sound}}{2L}$$

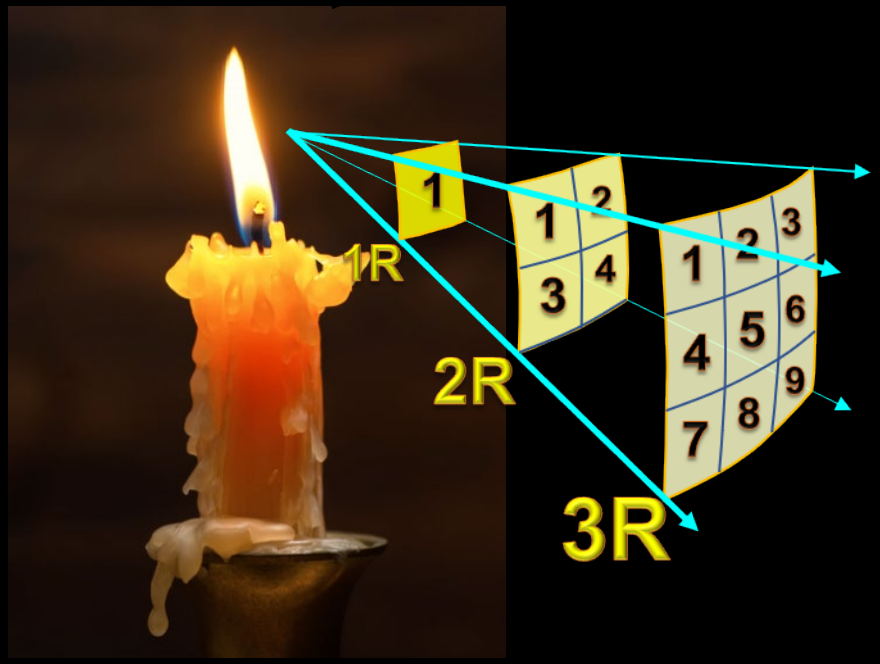
Antinode

Electric and Gravitational Fields

$$F = \frac{Gm_1m_2}{r^2}$$

$$I = \frac{P}{4\pi r^2}$$

$$F = \frac{kq_1q_2}{r^2}$$



click

Electric and Gravitational Fields







click

Freefall

REACTION TIMER

0.225 sec. 9/40



0.200 sec. 1/5

AVERAGE

0.175 sec. 1/6

0.150 sec. 1/7

VERY GOOD

0.125 sec. 1/8

0.100 sec. 1/10

EXCELLENT

0.075 sec. 3/40

0.050 sec. 1/20

LET'S SEE YOU PASS THIS TEST

Before and after your next beer, glass of wine or mixed drink, check your reactions.

Slower reaction means less ability to drive safely.

1. Hold your thumb and forefinger horizontally, with a ½ inch space between them.
2. Ask a friend to hold the reaction timer so that its lower edge is just above the space between finger and thumb.
3. Your friend should release the timer without warning.
4. Catch the timer with your finger and thumb as quickly as you can.
5. The point at which you catch the timer shows your reaction time.

Good reactions are important for safe driving.

BE A WINNER

DON'T DRINK & DRIVE

NYS Department of Motor Vehicles
Mario M. Cuomo, Governor
Joanne B. Adduci, Commissioner

Total Internal Reflection

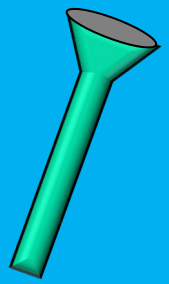
Total Internal Reflection

normal

Created by
Richard J. Terwilliger

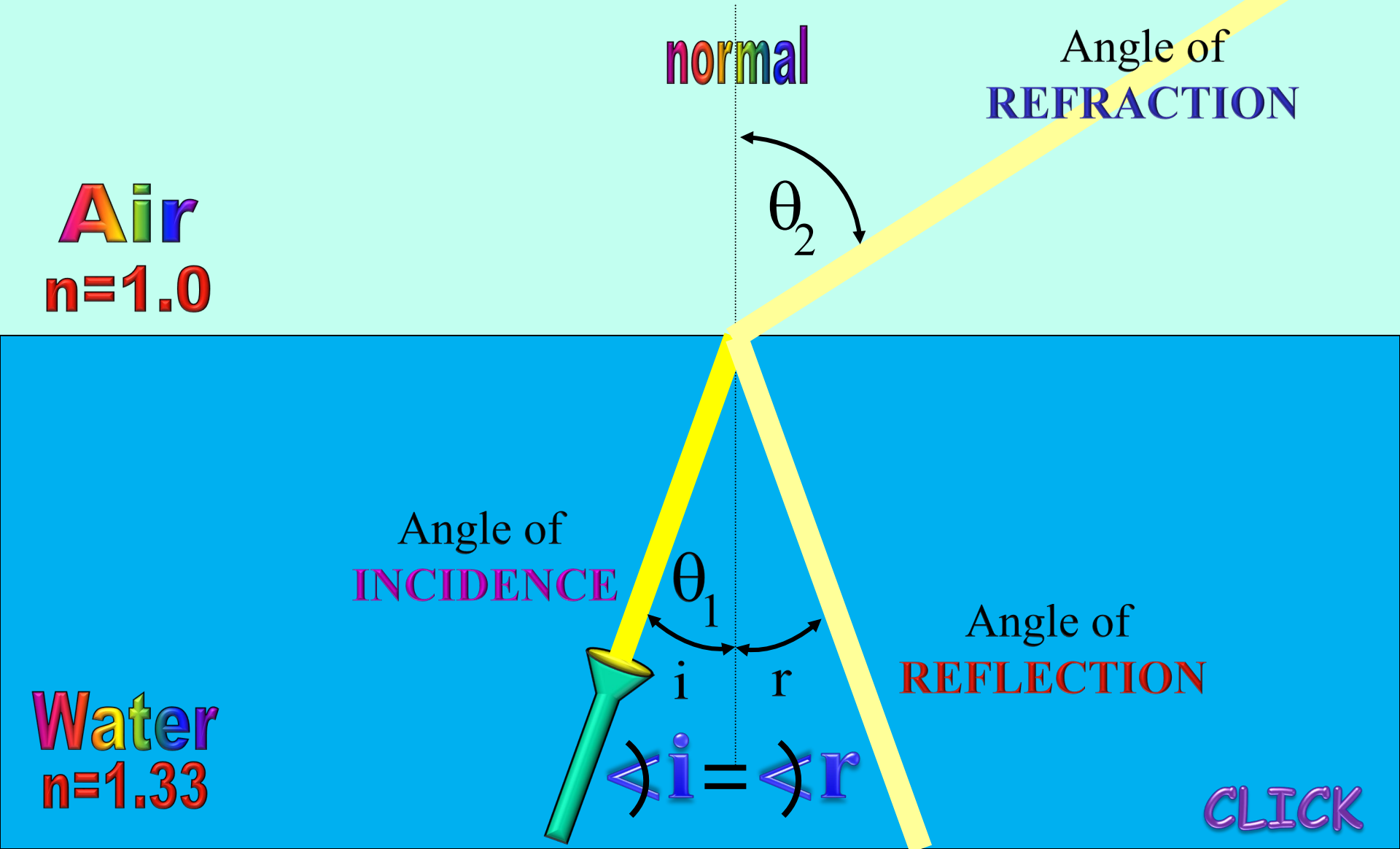
Air
n=1.0

Water
n=1.33

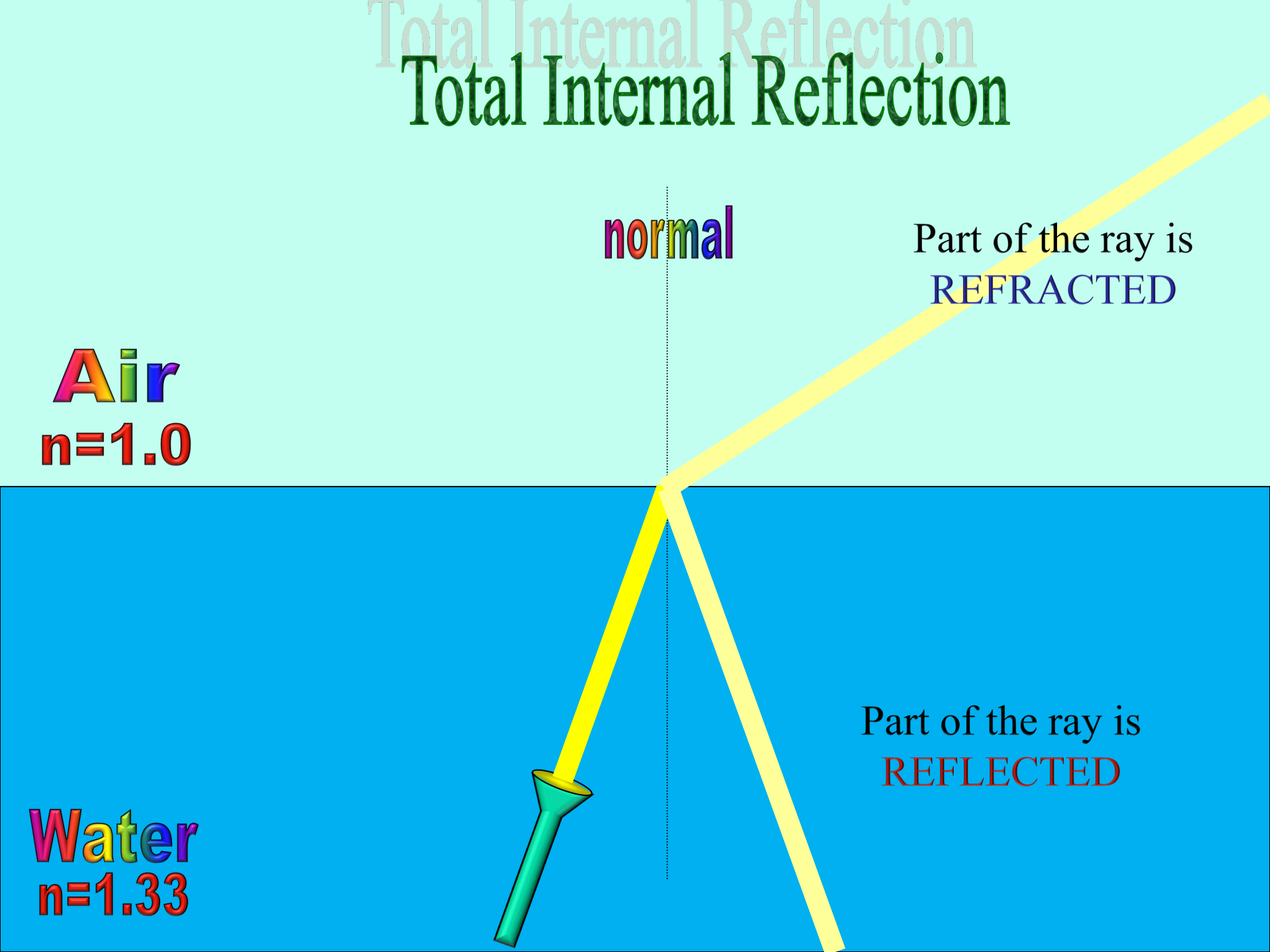


Click to
turn ON light

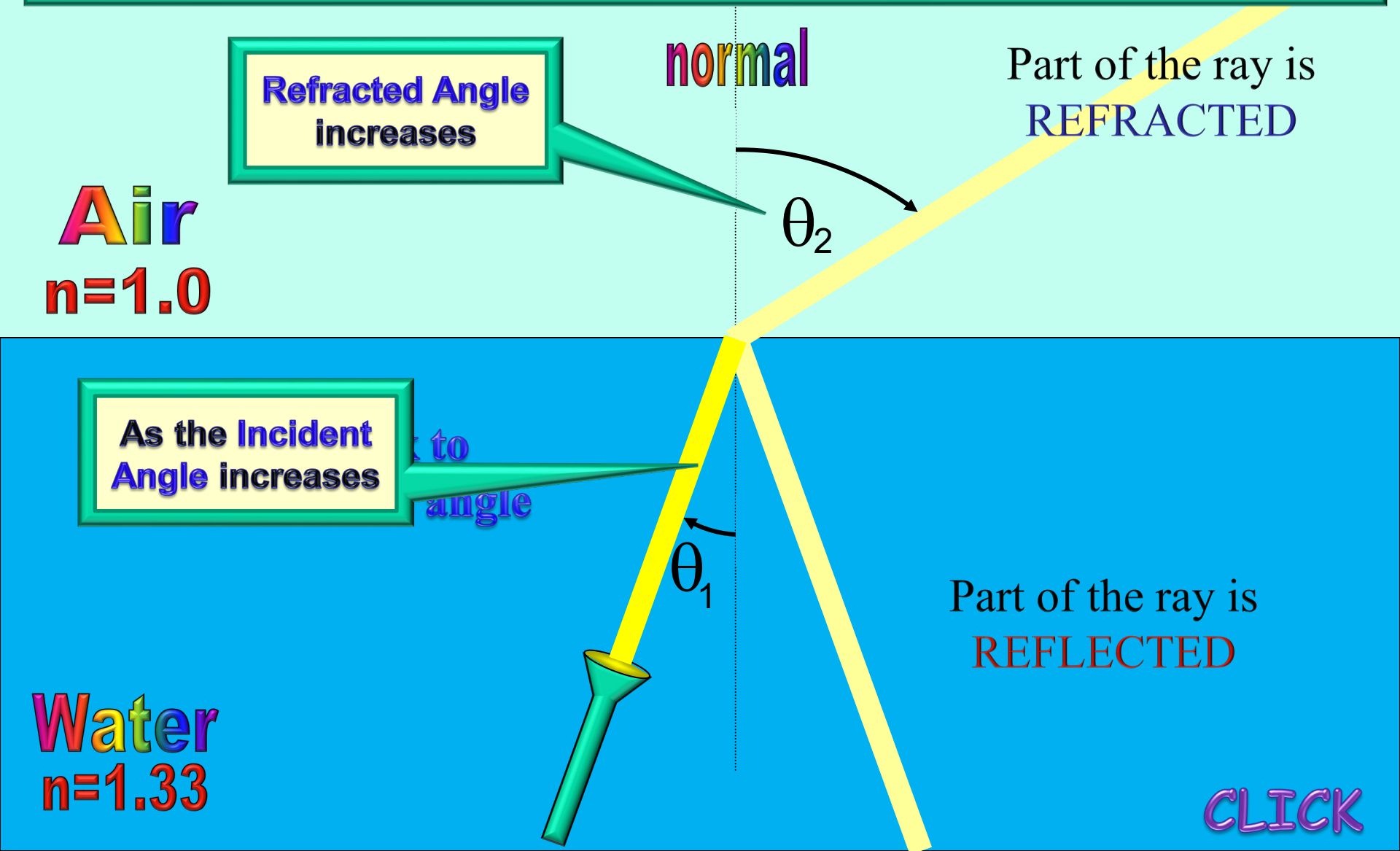
Total Internal Reflection



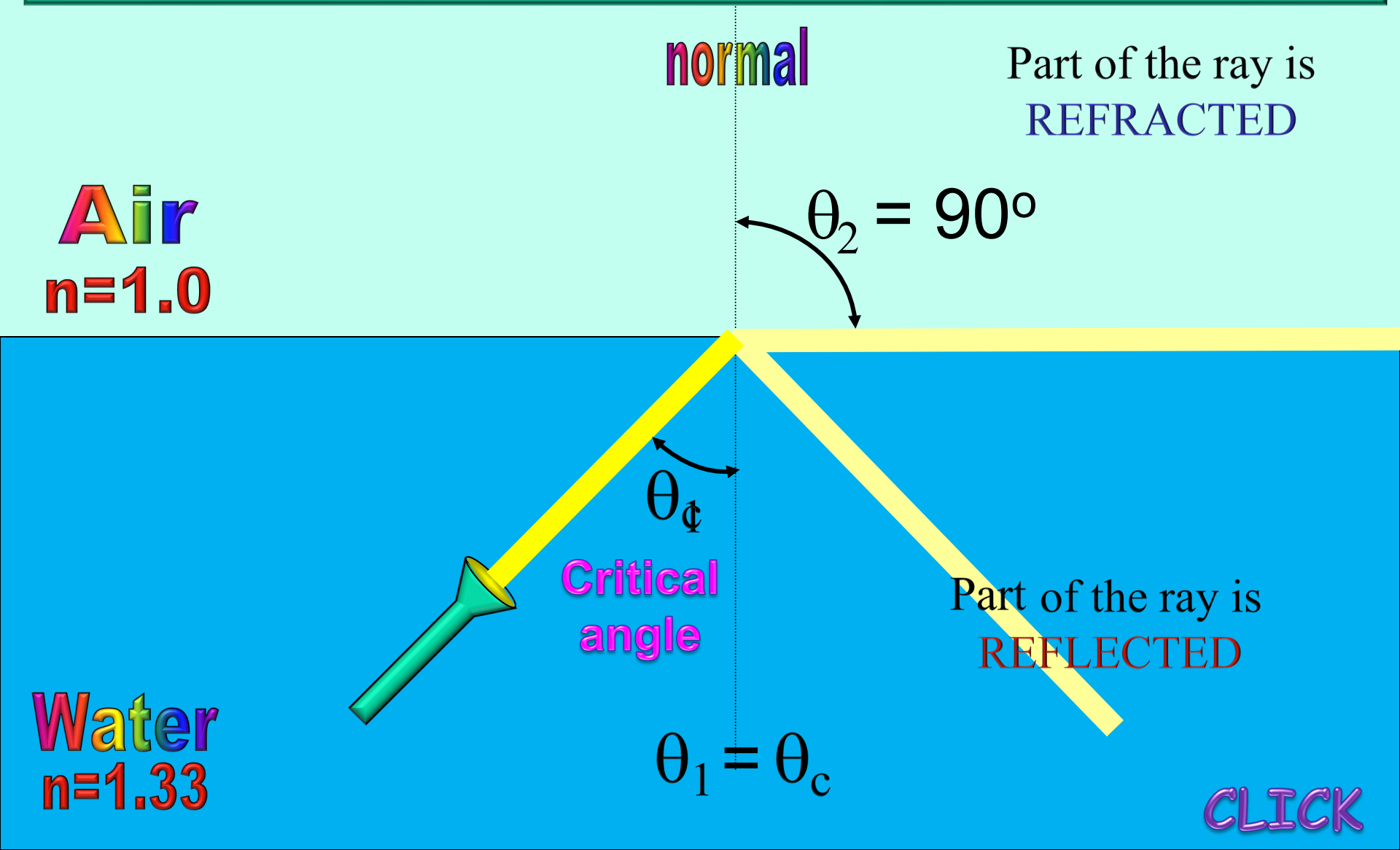
Total Internal Reflection



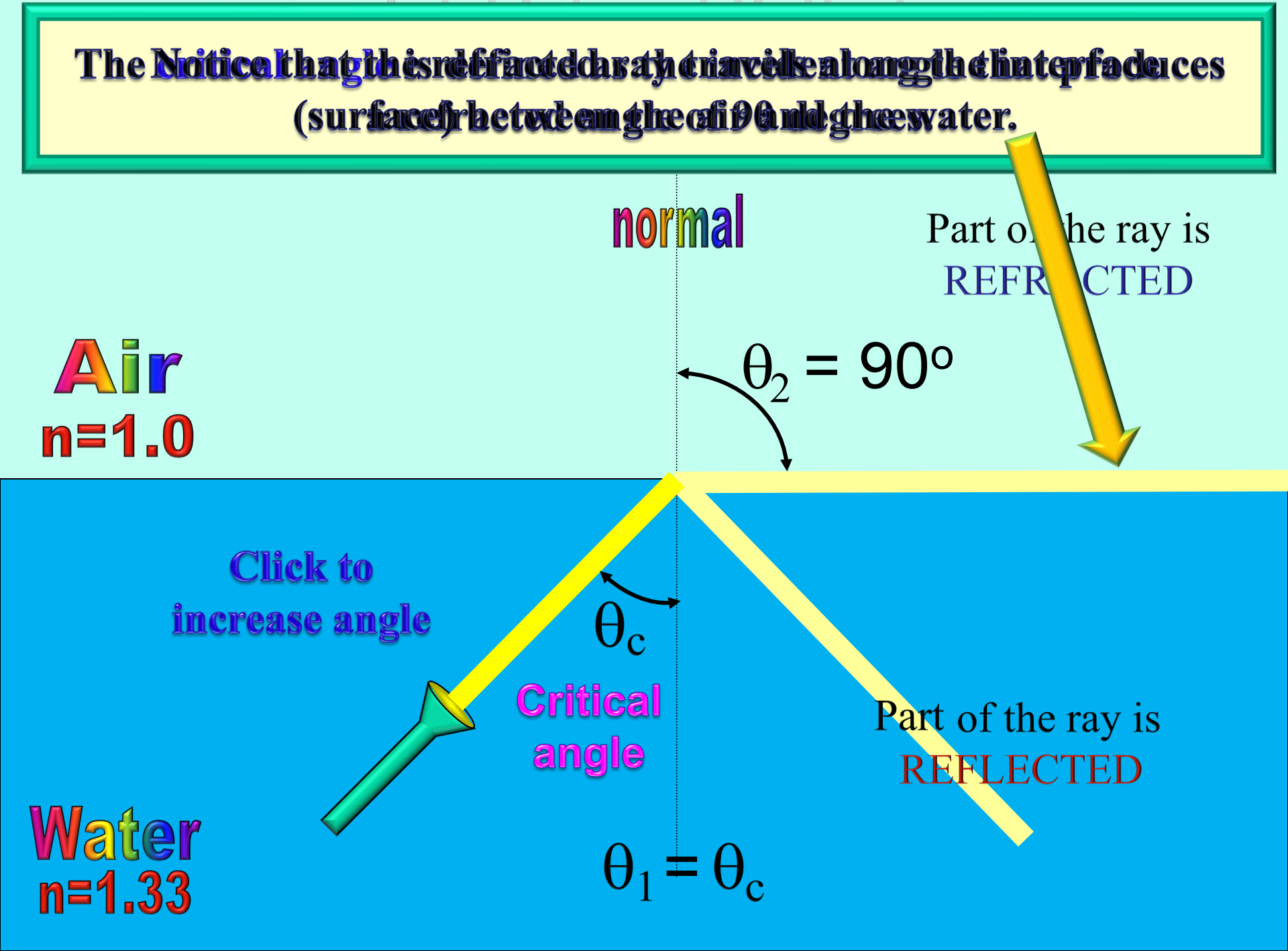
Notice that as the angle of incidence increases the angle of refraction also increases.



The critical angle is defined as the incident angle that produces a refracted angle of 90 degrees.



The Notice that this refracted ray travels along the interface
(surface) between the air and the water.

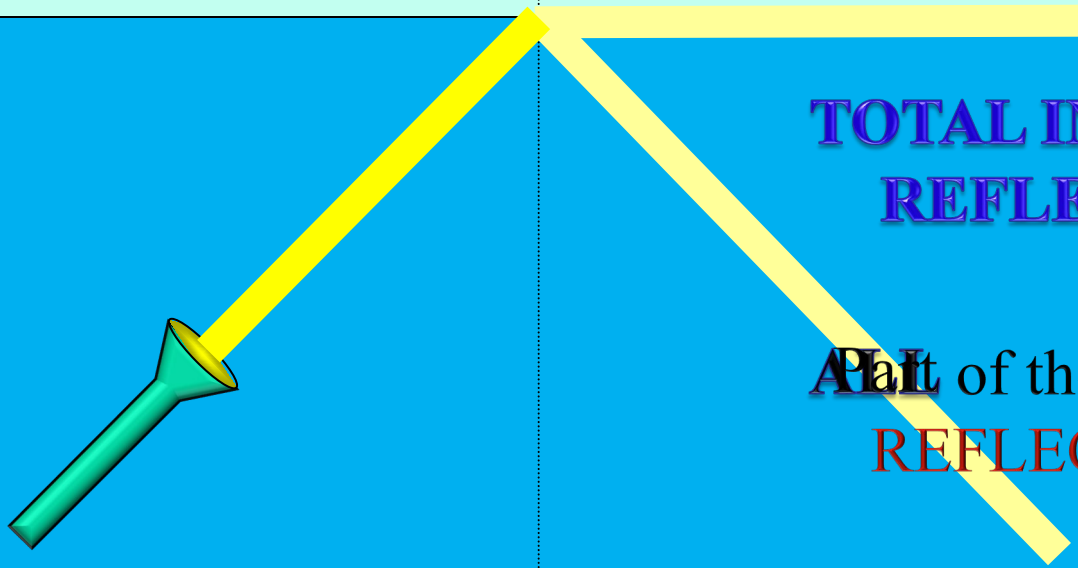


Total Internal Reflection

normal

Part of the ray is
REFRACTED

Air
n=1.0



TOTAL INTERNAL
REFLECTION

All of the ray is
REFLECTED

Water
n=1.33

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Standing Waves

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9 REVIEWS

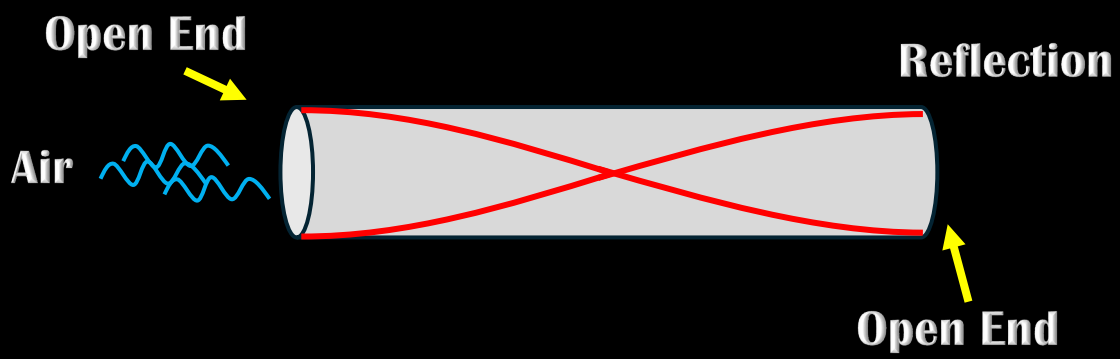
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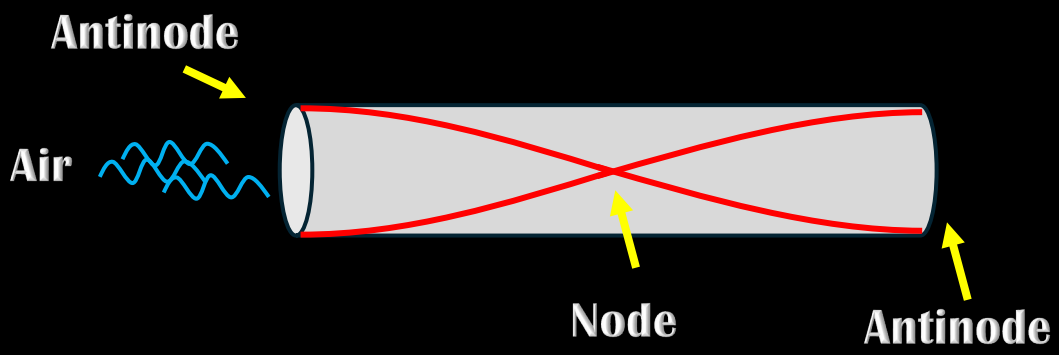
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Open Tube Resonance



$$f_n = \frac{nV_{SOUND}}{2L}$$

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