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## Student Exploration: Refraction

**Vocabulary:** angle of incidence, angle of refraction, frequency, index of refraction, medium, refraction, Snell's law, total internal reflection, wave front, wavelength, wave speed

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

Two runners ran side by side, each holding one end of a horizontal pole.

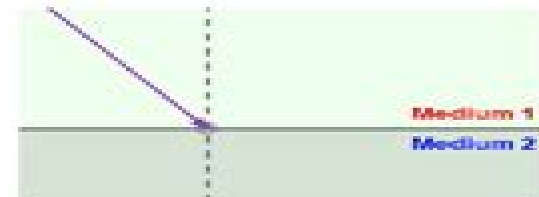
1. What would most likely happen if one of the runners began jogging in knee-deep water?

The jogger would slow down because when one of your body parts are under water they are slower the water basically pulls your body down just like the jogger if he was in the water.

2. How would this affect the direction of the runners? Explain. For me whenever I run in the water I really dont move directions it depends on the wave the waves can be moving my body and I dont knotice it.

### Gizmo Warm-up

Light can travel through many materials, or **media**. As with a runner on pavement or sand, the speed of light can change when it moves into a different medium. The *Refraction Gizmo™* allows you to observe what happens to a beam of light as it travels from one medium to another.



Turn off **View wave fronts**. Set **Index of refraction 2** to 3.0.

1. Click **Play** (▶). Observe the ray of light as it passes from **Medium 1** to **Medium 2**.
  - A. What happens to the speed of the light wave? **The speed of the light slowed down because it had to go to another angle.**
  - B. What happens to the direction of the light wave? **It changes direction when it hits the line.**

The bending of the light ray you see is called **refraction**.

# Refraction Lab Answers

**C Cleary**



**Refraction Lab Answers:**

## Adopting the Tune of Appearance: An Psychological Symphony within **Refraction Lab Answers**

In a global taken by monitors and the ceaseless chatter of instant transmission, the melodic splendor and mental symphony developed by the written term usually disappear in to the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. Nevertheless, set within the pages of **Refraction Lab Answers** a stunning literary value brimming with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that captivating masterpiece conducts visitors on an emotional trip, well unraveling the concealed songs and profound affect resonating within each carefully constructed phrase. Within the depths of the emotional examination, we can discover the book is key harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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