

Student Exploration: Refraction

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

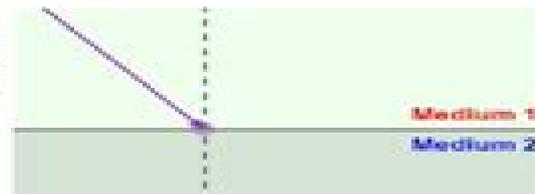
If one of the runners began jogging in knee-deep water, the runner would slow down.

2. How would this affect the direction of the runners? Explain.

This would affect the direction of the runners because the runner on the dry ground would outpace the runner in the water.

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 wave got significantly slower as it passed from Medium 1 to Medium 2.

- B. What happens to the direction of the light wave?

The direction of the light waves changes. The wavelength decreases as the light enters the medium and the light wave changes direction.

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

2. Click **Reset** (↺) and turn on **View wave fronts**. A **wave front** is an imaginary line that connects the crests or troughs of a wave. The **wavelength** of a wave is the distance between wave fronts.

Refraction Gizmo Answer Key

Shasha Hu



Refraction Gizmo Answer Key:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Refraction Gizmo Answer Key**

In a world inundated with monitors and the cacophony of instant transmission, the profound power and psychological resonance of verbal art frequently fade into obscurity, eclipsed by the regular barrage of sound and distractions. However, situated within the lyrical pages of **Refraction Gizmo Answer Key**, a interesting work of fictional beauty that pulses with fresh thoughts, lies an memorable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this interesting opus instructions viewers on a psychological odyssey, delicately exposing the latent possible and profound influence embedded within the intricate web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is main styles, dissect their fascinating publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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