

Name: Andy Diaz

Date: 5-1-18

## 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?

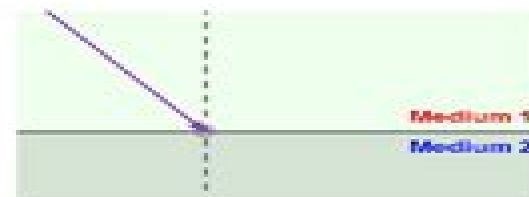
The jogger would slow down because when one of your body parts are under water they are slower the water basically pulls your body down just like the jogger if he was in the water.

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

**N Colangelo**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Refraction Lab Answers:**

## Whispering the Secrets of Language: An Emotional Quest through **Refraction Lab Answers**

In a digitally-driven world wherever displays reign supreme and instant connection drowns out the subtleties of language, the profound techniques and mental nuances concealed within phrases often go unheard. However, situated within the pages of **Refraction Lab Answers** a interesting fictional value pulsing with raw thoughts, lies an exceptional quest waiting to be undertaken. Published by an experienced wordsmith, this wonderful opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the psychological depths of this emotional evaluation, we can embark upon a honest exploration of the book is key themes, dissect its interesting publishing type, and fail to the powerful resonance it evokes strong within the recesses of readers hearts.

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