

## Bending Light Remote Lab

This lesson is designed for a student working remotely.)

This lab uses the [Bending Light](https://phet.colorado.edu/en/simulations/latest/bending-light_en.html) simulation from PhET Interactive Simulations at University of Colorado Boulder, under the CC-BY 4.0 license

[https://phet.colorado.edu/en/simulations/latest/bending-light\\_en.html](https://phet.colorado.edu/en/simulations/latest/bending-light_en.html)

### Learning Goals

- Describe what happens to light when it shines on a medium.
- Explain light direction changes at the interface between two media and what determines the angle.
- Describe the effect of varying wavelength on the angle of refraction.
- Explain why a prism creates a rainbow.
- Apply Snell's law to a laser beam incident on the interface between media.

### Everyday Physics in your life:

I put a chopstick in a glass of water like in the picture on the right. What do you notice?



Try this at home with some other things like a spoon or fork. Do you observe any different things?

(If you don't have a clear glass, you can still see some interesting things. You might want to use a larger container like a bathroom sink).

What ideas do you have about why things look different under water?

### Develop your understanding:

- Explore the [Intro](#) screen to find some things that happen when light rays shine into water. Figure out how to test what happens when the light rays come from underwater. Compare your ideas about why things look different under water to how light rays appear to "bend".



# Instructions For Bending Light Simulation Lab Answers

**Jicheng Xie**



**Instructions For Bending Light Simulation Lab Answers:**

Uncover the mysteries within Crafted by is enigmatic creation, Embark on a Mystery with **Instructions For Bending Light Simulation Lab Answers** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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