

Phet Simulator: Bending Light!

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_

- 1) Go to the following: <https://phet.colorado.edu/en/simulations/bending-light> and click Play, then click Intro.
- 2) When the simulator window opens, you should notice a laser pointing at a 45° angle downwards to the right. Look to the right of the window and notice that the two information boxes are explaining the mediums that are shown on the screen. What are the [two mediums](#) on the simulator window currently?
- 3) Click on the RED button on the laser. What [two](#) things does the light do as it hits the surface of the water?

- 4) On the bottom left side of the simulator window, you should notice that you have two tools available for you to use. Select the bottom tool that looks a bit like a [convex lens](#). Move the tool into the [BEFORE WATER](#) area.
- 5) Take the LENS and drag it directly over the light coming from the laser BEFORE it hits the surface of the water. Notice you can measure the intensity of the light when the lens is placed over the beam. Fill in the table below:

6) Move the lens out of the way and select the protractor tool from the toolbox. Place the protractor over the vertical dotted line so that the dotted line runs straight through zero. Confirm that the laser is coming in at a 45° angle.

| Laser pointed @ 45° angle from vertical               |                    |
|---|--------------------|
| Location of Lens                                      | Intensity of Light |
| Beam of light BEFORE it hits the surface of the water |                    |
| Beam of light in the water                            |                    |
| Beam of light being reflected off of the surface      |                    |

- 7) Now, move the laser pointer so that you change the angle of incoming light. Adjust the laser point so that it is only 30° to the left of the zero mark on the dotted line. Once the laser pointer is in the location, move the protractor tool back to the tool box and fill in the table again below using the lens.

| Laser pointed @ 30° angle from vertical               |                    |
|---|--------------------|
| Location of Lens                                      | Intensity of Light |
| Beam of light BEFORE it hits the surface of the water |                    |
| Beam of light in the water                            |                    |
| Beam of light being reflected off of the surface      |                    |

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# Bending Light Phet Lab Answers

## [Bending Light Phet Lab Answers](#)

### **Bending Light Phet Lab Answers**

Bending Light PhET Lab Name: Jessie Hart Go to and open the Bending Light Sim. Click on Intro. Move the protractor and line it up with the surface of the interface between the two materials. Press the red button to turn on the laser. 1. For each scenario, select the top and bottom material as specified in each data table.

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Bending Light PhET Lab Name: Jessie Hart Go to and open the Bending Light Sim. Click on Intro. Move the protractor and line it up with the surface of the interface between the two materials. Press the red button to turn on the laser. 1. For each scenario, select the top and bottom material as specified in each data table.

### **Bending Light PhET Lab - Bending Light PhET Lab Name ...**

Bending Light 1.1.20 - PhET Interactive Simulations

### **Bending Light 1.1.20 - PhET Interactive Simulations**

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2) PhET Sim: Bending Light (20 points) Please answer this question with complete sentences. PhET sims ("Physics Education Technology simulations") are free, interactive, simulations made here at CU.

### **Solved: 2) PhET Sim: Bending Light (20 Points) Please Answ ...**

Bending Light PhET Lab Go to and open the Bending Light Sim. Click on Intro. Move the protractor and line it up with the surface of the interface between the two materials. Press the red button to turn on the laser. For each scenario, select the top and bottom material as specified in each data table.

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