

Phet Simulator: Bending Light!

Name: _____

Date: _____ Period: _____

- 1) Go to the following: <https://phet.colorado.edu/en/simulation/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 lot like a magnifying glass. Move the tool into the bottom right corner.
- 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 toolbar. Place the protractor over the vertical

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	

dotted line so that the dotted line runs straight through ray. Confirm that the laser is coming in at a 45° angle.

- 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 vertical dotted line. Once the laser pointer is in this location, move the protractor tool back to the tool bar 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	

Answers To The Phet Bending Light Simulation

Barbara Taylor



Answers To The Phet Bending Light Simulation:

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