



Bending Light Simulators

In this activity, you will use an interactive simulation developed by the University of Colorado Boulder <https://phet.colorado.edu/en/simulations/filter?type=html,flash&sort=alpha&view=grid>

Try these simulators. Remember, you can find them in alphabetical order.

1. [Bending Light](#)

Select Prism. Turn the beam on, change to multiple beams of light. Drag the circular or semicircular prism into the beam of light. Observe what happens to the light beams. Would you be able to 'shrink' an image using a prism?

Try putting more than one prism into the light. What happens to the direction of the light?

2. [Molecules and Light](#)

Turn the light on. Select UV light. Observe what happens when UV light shines on different molecules. Can UV light cause a chemical reaction?

Try it again with the infrared light or microwave. Does the microwave cause the water molecule to move? Think about how this might cause your food to heat up!

You can also view the entire electromagnetic spectrum by clicking: Show Light Spectrum.

3. [Color Vision](#)

In the RGB simulator, what color does your brain see when you power up all three colors?