

## PhET Online Lab - Color Vision

After completing this lab you should be able to describe (a) what happens to white light when it passes through a color filter, (b) explain what happens when the light and the filter have similar color and different colors, (c) explain how white light is created and (d) explain how the primary colors of light are combined to produce the secondary colors of light.

You will use one of the online simulations from PhET Interactive Simulations. The simulation is called Color Vision HTML5. The link for the simulation is: <https://phet.colorado.edu/en/simulation/color-vision>.

### 1. Single Beams

On the left side of the homepage of the simulation click on the **Single Beams** window.



Single Beams

Spend some time investigating the different controls of the Single Beams window. For example, how do you turn the flashlight on and off, how do you switch the beam from white light to different colors, how do you switch from a solid beam of light to particles of light and how do you add a filter and change the color of the filter?

Before you begin, click the reset button.

(a) Turn the flashlight on and switch to white light. Leave the filter off.

a) What color is being emitted from the flashlight? \_\_\_\_\_

b) What color does the person see? \_\_\_\_\_

(a) Just below the flashlight click the buttons to switch from a solid beam of light to particles of light.

a) Look carefully at the particles of light being emitted from the flashlight. What colors of light particles make up white light? What is the abbreviation for each of these colors?

(Use the Play/Pause and Stop/Through buttons at the bottom of the window to help you.)

b) Even though the flash light is emitting particles of light with different colors, what color light does the person still see? \_\_\_\_\_

(a) Click the reset button. Turn the flashlight on, switch to white light. Turn on the colored filter by clicking on the black button. You should see a yellow filter. Switch to the particles of light.

a) What colors are being emitted from the flashlight? \_\_\_\_\_

b) What colors are passing through the yellow filter? \_\_\_\_\_

c) What colors are absorbed by the yellow filter? \_\_\_\_\_

d) What color does the person see? \_\_\_\_\_



# Phet Answers To The Color Simulation

**A Loxley**



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