

PhET Online Lab, Geometric Optics, Part 1

I. Introduction

In this guided inquiry activity lab you will investigate how an image is formed by four different optical instruments: a convex lens, a concave lens, a convex mirror and a concave mirror. By the end of this lab, you should be able to (1) explain how the characteristics of the image change as the object is brought closer to each of the lenses and mirrors, (2) explain the similarities and differences between the image formation for each of the lenses and mirrors and (3) explain the meaning of the points F and $2F$ for the convex lenses and concave mirrors.

You will use one of the simulations from PhET Interactive Simulations. The simulation is called Geometric Optics (HTML5). The link for the simulation is: <https://phet.colorado.edu/en/simulation/geometric-optics>.

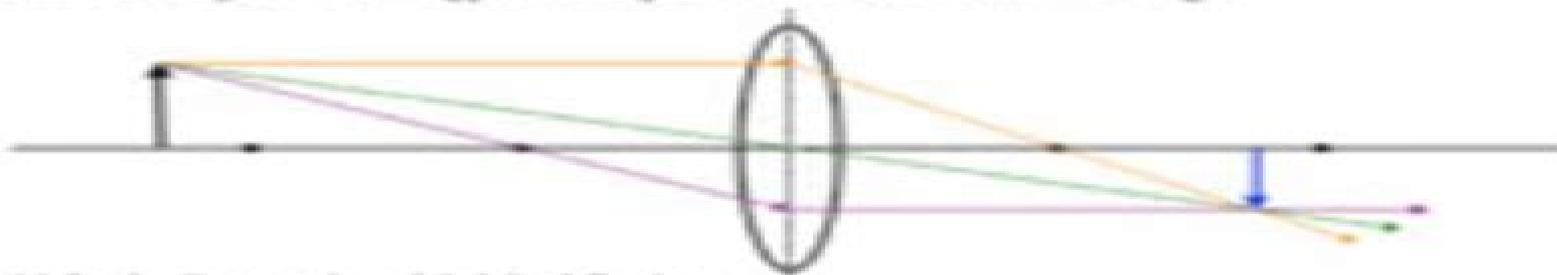
II. Convex Lens and Concave Mirror

To begin, click on the Lens window. Next click on the PhET logo in the bottom right hand corner of the simulation and then click Options. When the Options window opens, check the add "2F points" box and change the focal length control from infinite to direct. Close the Options window.



Next, on the simulation window (1) change Rays from Marginal to Principal, (2) make the lens diameter 100 cm, and (3) check the 2F Points and Labels boxes. Leave the focal length at 50 cm and the Second Point box unchecked.

Choose an object from the upper left drop-down menu. Do not choose the light.



(4) On the diagram above label the following:

- | | |
|---------------------|---|
| a) the optical axis | e) the focal lengths |
| b) the object | f) the points that are two focal lengths away from the lens |
| c) the image | g) the object distance |
| d) the focal points | h) the image distance |

(5) Move the object back and forth on the optical axis. Where does the convex lens form an image?

Geometric Optics Phet Lab Answers

JG Myers



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