

PhET Online Lab, Geometric Optics, Part 1

I. Introduction

In this guided inquiry activity, 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 lens and concave mirrors.

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

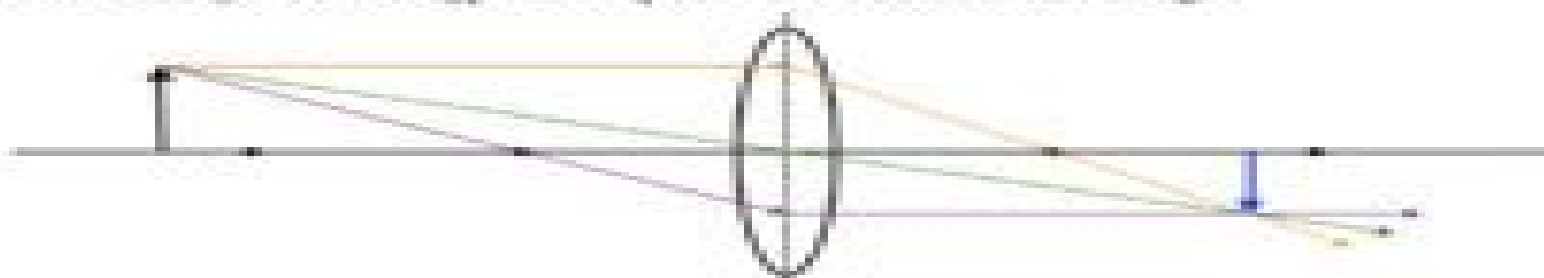
II. Convex Lens and Concave Mirror

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 red "off points" box and change the focal length control from infinity to 40 cm. Close the Options window.



Next, on the simulation window (1) change Rays from Marginal to Principal, (2) make the lens diameter 200 cm and (3) check the off Points and Labels boxes. Leave the focal length at 40 cm and the Second Point box unchecked.

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



(1) On the diagram above label the following:

- | | |
|---------------------|---|
| a) the optical axis | e) the focal length |
| 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 |

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

Geometric Optics Phet Lab Answers

Wolfgang Guggemos



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Table of Contents Geometric Optics Phet Lab Answers

1. Understanding the eBook Geometric Optics Phet Lab Answers
 - The Rise of Digital Reading Geometric Optics Phet Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometric Optics Phet Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometric Optics Phet Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometric Optics Phet Lab Answers
 - Personalized Recommendations
 - Geometric Optics Phet Lab Answers User Reviews and Ratings
 - Geometric Optics Phet Lab Answers and Bestseller Lists

5. Accessing Geometric Optics Phet Lab Answers Free and Paid eBooks
 - Geometric Optics Phet Lab Answers Public Domain eBooks
 - Geometric Optics Phet Lab Answers eBook Subscription Services
 - Geometric Optics Phet Lab Answers Budget-Friendly Options
6. Navigating Geometric Optics Phet Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometric Optics Phet Lab Answers Compatibility with Devices
 - Geometric Optics Phet Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometric Optics Phet Lab Answers
 - Highlighting and Note-Taking Geometric Optics Phet Lab Answers
 - Interactive Elements Geometric Optics Phet Lab Answers
8. Staying Engaged with Geometric Optics Phet Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometric Optics Phet Lab Answers
9. Balancing eBooks and Physical Books Geometric Optics Phet Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometric Optics Phet Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometric Optics Phet Lab Answers
 - Setting Reading Goals Geometric Optics Phet Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometric Optics Phet Lab Answers
 - Fact-Checking eBook Content of Geometric Optics Phet Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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