

## Lenses Virtual Lab using PhET Geometric Optics

Name \_\_\_\_\_

### Materials:

Computer, Internet connection, and ruler

Hour \_\_\_\_\_

### Objectives:

- To demonstrate the formation of images from convex and concave lenses.
- To identify the type of image formed by convex and concave lenses.
- To confirm the lens equations.

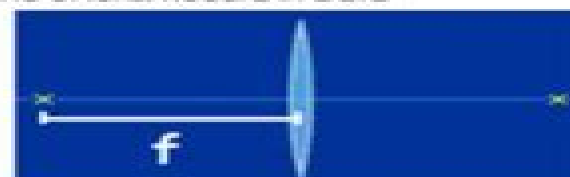
### Procedure: Convex Lens

1. Go to **PhET Simulations to Play with Sims to Physics to Light and Radiation to Geometric Optics to Run Now!**
2. Take some time to play with the simulation to get familiar with how it works.
3. Maximize your screen. **Warning:** For the measurements taken in this lab, the ruler in the PhET program will not work. Therefore, we will use a standard ruler measuring from the computer monitor. The scale used to make these measurements will change from computer to computer so once you start, you must finish.
4. In this lab, you will be moving the object to analyze how images are formed. When you are ready to get started be sure that your settings are as follows:



Change  
object to  
yellow  
arrow

5. Using the ruler, measure the distance from  $x$  to the center line of lens. Record in Data Table 1 as  $f$ . Double this value and record as  $2f$ .
6. Measure the height of object ( $h_o$ ) and record.
7. Place the yellow arrow beyond  $2f$ .
8. In Data Table 2, record  $d_o$ ,  $d_i$ ,  $h_i$  and your observations of the image.
9. Move the yellow arrow to  $2f$ . Record in Data Table 2. Your measurements for  $d_o$ ,  $d_i$ ,  $h_i$  and your observations of the image.
10. Move the yellow arrow to between  $2f$  and  $f$ . Record in Data Table 2. Your measurements for  $d_o$ ,  $d_i$ ,  $h_i$  and your observations of the image.
11. Place the yellow arrow at  $f$ . Record your observations. (Having trouble locating image, check your ray diagram sheet) Record your observations in Table 2.
12. Move the yellow arrow to a position that is halfway between  $f$  and the lens. If you can't locate the image, check the box next to Virtual Image. Record your observations in Table 2.



### Data:

| Table 1                 |  |
|-------------------------|--|
| Focal length, $f$       |  |
| $2f$                    |  |
| Height of object, $h_o$ |  |

# Lenses Virtual Lab Using Phet Geometric Optics Teacher

**Lei Shi**



## **Lenses Virtual Lab Using Phet Geometric Optics Teacher:**

This book delves into Lenses Virtual Lab Using Phet Geometric Optics Teacher. Lenses Virtual Lab Using Phet Geometric Optics Teacher is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lenses Virtual Lab Using Phet Geometric Optics Teacher, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Lenses Virtual Lab Using Phet Geometric Optics Teacher
    - Chapter 2: Essential Elements of Lenses Virtual Lab Using Phet Geometric Optics Teacher
    - Chapter 3: Lenses Virtual Lab Using Phet Geometric Optics Teacher in Everyday Life
    - Chapter 4: Lenses Virtual Lab Using Phet Geometric Optics Teacher in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Lenses Virtual Lab Using Phet Geometric Optics Teacher. This chapter will explore what Lenses Virtual Lab Using Phet Geometric Optics Teacher is, why Lenses Virtual Lab Using Phet Geometric Optics Teacher is vital, and how to effectively learn about Lenses Virtual Lab Using Phet Geometric Optics Teacher.
  3. In chapter 2, this book will delve into the foundational concepts of Lenses Virtual Lab Using Phet Geometric Optics Teacher. The second chapter will elucidate the essential principles that need to be understood to grasp Lenses Virtual Lab Using Phet Geometric Optics Teacher in its entirety.
  4. In chapter 3, the author will examine the practical applications of Lenses Virtual Lab Using Phet Geometric Optics Teacher in daily life. This chapter will showcase real-world examples of how Lenses Virtual Lab Using Phet Geometric Optics Teacher can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Lenses Virtual Lab Using Phet Geometric Optics Teacher in specific contexts. The fourth chapter will explore how Lenses Virtual Lab Using Phet Geometric Optics Teacher is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Lenses Virtual Lab Using Phet Geometric Optics Teacher. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Lenses Virtual Lab Using Phet Geometric Optics Teacher.

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