

Name:

Date:

Student Exploration: Ray Tracing (Lenses)

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

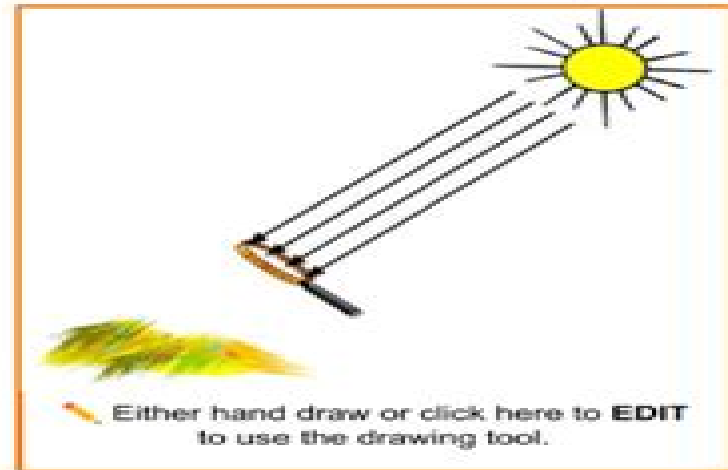
Vocabulary: concave lens, convex lens, focal point, image, magnification, real image, refraction, virtual image

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Agnes is trapped on a desert island with nothing but a magnifying glass. She wants to use the glass to focus sunlight and start a fire. She holds the glass above some dry grass as shown at right.

1. On the diagram, draw the path the Sun rays will likely take from the magnifying glass to the grass.
2. A magnifying glass is an example of a **convex lens**—a lens that curves outward on both sides. Why is a convex lens useful for starting fires?

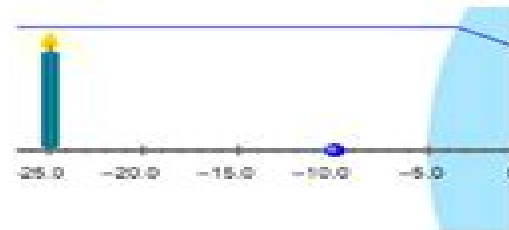
Because the lens can direct the light to a point, it focuses all the light there so that point heats up, and can catch fire.



Gizmo Warm-up

The *Ray Tracing (Lenses)* Gizmo shows light rays passing through a lens. The light rays are bent by **refraction** as they pass through the lens and form a focused **image** to the right of the lens.

To begin, turn on the **Colorize lines** checkbox. Under **Show lines**, turn off the **Central line** and the **Line through focal point** so that only the **Parallel line** is showing.



1. The blue dots in front of and behind the lens are the **focal points** of the lens. Move the candle on the left back and forth and up and down.

What is always true about the light ray that emerges from the right side of the lens?

It always goes through the focal point.

2. Turn off the **Parallel line** and turn on the **Line through focal point**. Move the candle. What do you notice

Ray Tracing Lenses Gizmo Answers

Arturo Cuomo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Ray Tracing Lenses Gizmo Answers:

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Table of Contents Ray Tracing Lenses Gizmo Answers

1. Understanding the eBook Ray Tracing Lenses Gizmo Answers
 - The Rise of Digital Reading Ray Tracing Lenses Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ray Tracing Lenses Gizmo 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 Ray Tracing Lenses Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ray Tracing Lenses Gizmo Answers
 - Personalized Recommendations
 - Ray Tracing Lenses Gizmo Answers User Reviews and Ratings
 - Ray Tracing Lenses Gizmo Answers and Bestseller Lists

5. Accessing Ray Tracing Lenses Gizmo Answers Free and Paid eBooks
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 - Ray Tracing Lenses Gizmo Answers Budget-Friendly Options
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 - Ray Tracing Lenses Gizmo Answers Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Ray Tracing Lenses Gizmo Answers
 - Highlighting and Note-Taking Ray Tracing Lenses Gizmo Answers
 - Interactive Elements Ray Tracing Lenses Gizmo Answers
8. Staying Engaged with Ray Tracing Lenses Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ray Tracing Lenses Gizmo Answers
9. Balancing eBooks and Physical Books Ray Tracing Lenses Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ray Tracing Lenses Gizmo Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ray Tracing Lenses Gizmo Answers
 - Setting Reading Goals Ray Tracing Lenses Gizmo Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ray Tracing Lenses Gizmo Answers
 - Fact-Checking eBook Content of Ray Tracing Lenses Gizmo 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

Ray Tracing Lenses Gizmo Answers Introduction

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