

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

Answers For Gizmo Lab Ray Tracing Lenses

Xiaolong Qi

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.

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Table of Contents Answers For Gizmo Lab Ray Tracing Lenses

1. Understanding the eBook Answers For Gizmo Lab Ray Tracing Lenses
 - The Rise of Digital Reading Answers For Gizmo Lab Ray Tracing Lenses
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Gizmo Lab Ray Tracing Lenses
 - 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 Answers For Gizmo Lab Ray Tracing Lenses
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Gizmo Lab Ray Tracing Lenses
 - Personalized Recommendations
 - Answers For Gizmo Lab Ray Tracing Lenses User Reviews and Ratings
 - Answers For Gizmo Lab Ray Tracing Lenses and Bestseller Lists
5. Accessing Answers For Gizmo Lab Ray Tracing Lenses Free and Paid eBooks
 - Answers For Gizmo Lab Ray Tracing Lenses Public Domain eBooks
 - Answers For Gizmo Lab Ray Tracing Lenses eBook Subscription Services
 - Answers For Gizmo Lab Ray Tracing Lenses Budget-Friendly Options

6. Navigating Answers For Gizmo Lab Ray Tracing Lenses eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Gizmo Lab Ray Tracing Lenses Compatibility with Devices
 - Answers For Gizmo Lab Ray Tracing Lenses Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Gizmo Lab Ray Tracing Lenses
 - Highlighting and Note-Taking Answers For Gizmo Lab Ray Tracing Lenses
 - Interactive Elements Answers For Gizmo Lab Ray Tracing Lenses
8. Staying Engaged with Answers For Gizmo Lab Ray Tracing Lenses
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Gizmo Lab Ray Tracing Lenses
9. Balancing eBooks and Physical Books Answers For Gizmo Lab Ray Tracing Lenses
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Gizmo Lab Ray Tracing Lenses
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Gizmo Lab Ray Tracing Lenses
 - Setting Reading Goals Answers For Gizmo Lab Ray Tracing Lenses
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Gizmo Lab Ray Tracing Lenses
 - Fact-Checking eBook Content of Answers For Gizmo Lab Ray Tracing Lenses
 - 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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