

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?

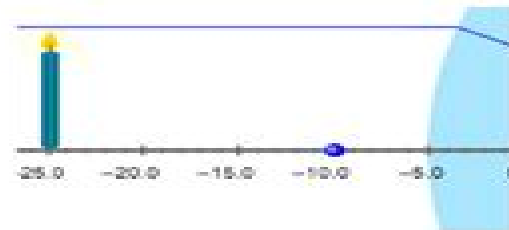
Because the lens can direct the light to a point, it focuses all the light there so that point heats up, and can catch fire.



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 Gizmo Answer Key

L Towne

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'L Towne' text.

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Table of Contents Ray Tracing Gizmo Answer Key

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

6. Navigating Ray Tracing Gizmo Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Ray Tracing Gizmo Answer Key Compatibility with Devices
 - Ray Tracing Gizmo Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ray Tracing Gizmo Answer Key
 - Highlighting and Note-Taking Ray Tracing Gizmo Answer Key
 - Interactive Elements Ray Tracing Gizmo Answer Key
8. Staying Engaged with Ray Tracing Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ray Tracing Gizmo Answer Key
9. Balancing eBooks and Physical Books Ray Tracing Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ray Tracing Gizmo Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ray Tracing Gizmo Answer Key
 - Setting Reading Goals Ray Tracing Gizmo Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ray Tracing Gizmo Answer Key
 - Fact-Checking eBook Content of Ray Tracing Gizmo Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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