

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.

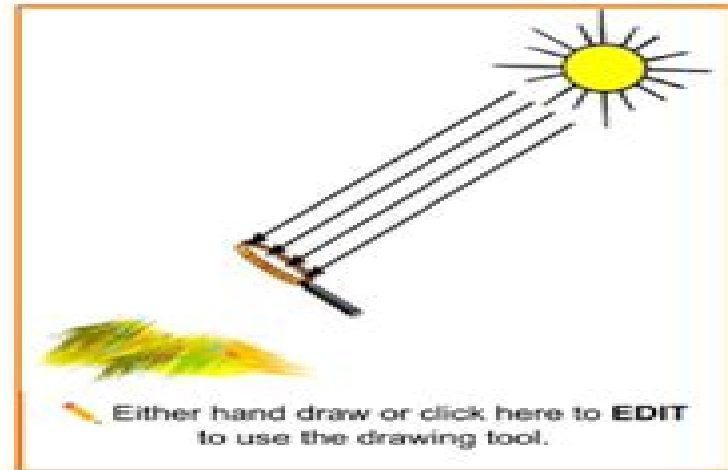
Vocabulary: concave lens, convex lens, focal point, image, magnification, real image, refraction, virtual image

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?

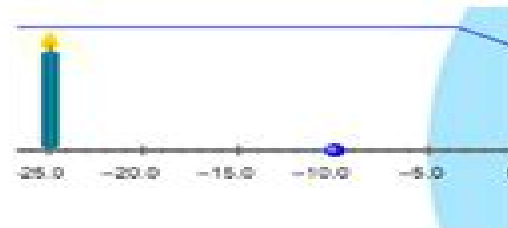
Because the lens can direct the light to a point, it focuses all the light there so that point heats up, and can catch fire.



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 Ray Tracing Lenses Gizmo

Shasha Hu

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 Ray Tracing Lenses Gizmo

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

- Personalized Recommendations
- Answers For Ray Tracing Lenses Gizmo User Reviews and Ratings
- Answers For Ray Tracing Lenses Gizmo and Bestseller Lists
- 5. Accessing Answers For Ray Tracing Lenses Gizmo Free and Paid eBooks
 - Answers For Ray Tracing Lenses Gizmo Public Domain eBooks
 - Answers For Ray Tracing Lenses Gizmo eBook Subscription Services
 - Answers For Ray Tracing Lenses Gizmo Budget-Friendly Options
- 6. Navigating Answers For Ray Tracing Lenses Gizmo eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Ray Tracing Lenses Gizmo Compatibility with Devices
 - Answers For Ray Tracing Lenses Gizmo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Ray Tracing Lenses Gizmo
 - Highlighting and Note-Taking Answers For Ray Tracing Lenses Gizmo
 - Interactive Elements Answers For Ray Tracing Lenses Gizmo
- 8. Staying Engaged with Answers For Ray Tracing Lenses Gizmo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Ray Tracing Lenses Gizmo
- 9. Balancing eBooks and Physical Books Answers For Ray Tracing Lenses Gizmo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Ray Tracing Lenses Gizmo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Ray Tracing Lenses Gizmo
 - Setting Reading Goals Answers For Ray Tracing Lenses Gizmo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Ray Tracing Lenses Gizmo

- Fact-Checking eBook Content of Answers For Ray Tracing Lenses Gizmo
 - 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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