

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.

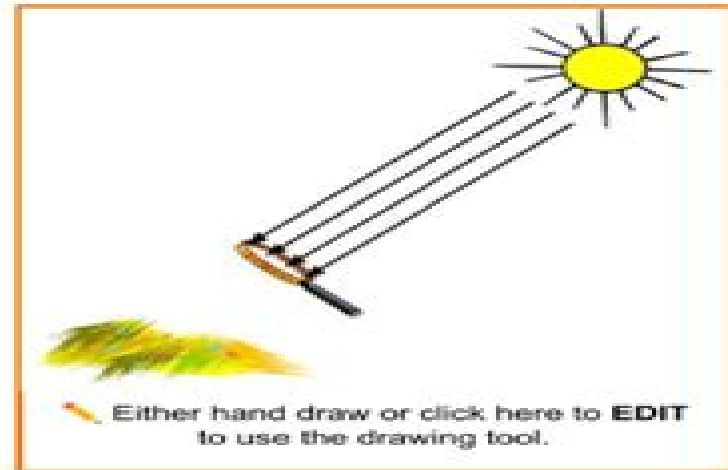
Vocabulary: concave lens, convex lens, focal point, image, magnification, real image, refraction, virtual image

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?

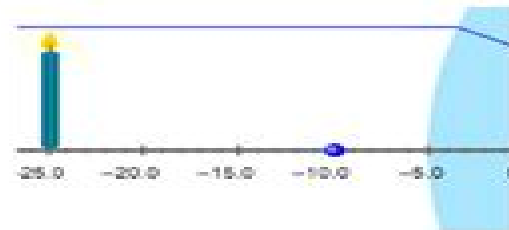
Because the lens can direct the light to a point, it focuses all the light there so that point heats up, and can catch fire.



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

Gizmo Answer Key Student Exploration Ray Tracing Lenses

Sabine Zange

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 Gizmo Answer Key Student Exploration Ray Tracing Lenses

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

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