

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.

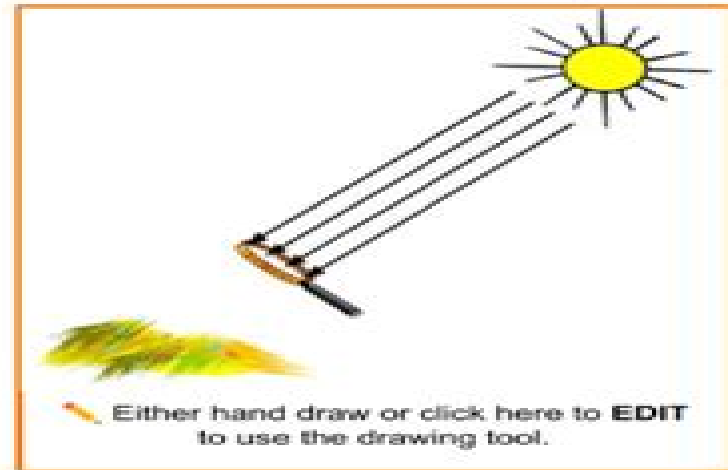
Vocabulary: concave lens, convex lens, focal point, image, magnification, real image, refraction, virtual image

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?

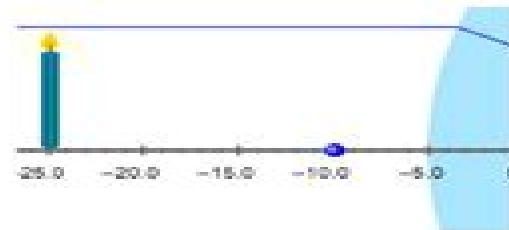
Because the lens can direct the light to a point, it focuses all the light there so that point heats up, and can catch fire.



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 Answer Key

Guillaume Favre

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 Answer Key:

Adopting the Track of Appearance: An Mental Symphony within **Ray Tracing Lenses Gizmo Answer Key**

In some sort of eaten by displays and the ceaseless chatter of quick conversation, the melodic elegance and emotional symphony developed by the published word usually disappear into the back ground, eclipsed by the relentless noise and disruptions that permeate our lives. Nevertheless, set within the pages of **Ray Tracing Lenses Gizmo Answer Key** an enchanting literary value full of organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this captivating masterpiece conducts visitors on a mental journey, skillfully unraveling the hidden songs and profound affect resonating within each cautiously constructed phrase. Within the depths of this emotional analysis, we can explore the book is key harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

<https://crm.avenza.com/data/detail/Documents/pogil%20chemical%20bonding%20swbat.pdf>

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