



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Ray Tracing (Mirrors)

**Vocabulary:** concave mirror, convex mirror, focal point, magnification, real image, reflect, virtual image

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

For these questions, it would be helpful to have a metal spoon on hand. If you don't have one, try to imagine looking at yourself in a spoon.

1. Look at yourself in the front of the spoon (the side where the food sits). What do you see?

**My reflection, but upside down**

The front of a spoon is an example of a **concave mirror**.

2. What do you see when you look at yourself in the back of a spoon?

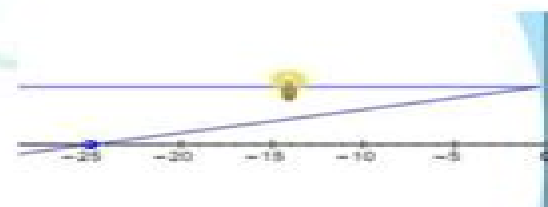
**My reflection, but a bit distorted.**

The back of a spoon is an example of a **convex mirror**.

### Gizmo Warm-up

The *Ray Tracing (Mirrors)* Gizmo shows a side view of a light bulb positioned to the left of a mirror. Light rays passing from the light bulb to the mirror are shown.

To begin, select the **Concave mirror**. Turn on **Colorize lines**. 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 dot in front of the mirror is the **focal point** of the mirror. Move the light bulb on the left around. What is always true about the ray that is **reflected** from the parallel ray?

**The ray reflected from the parallel ray goes through the focal point after reflecting from the mirror**

2. Turn off the **Parallel line** and turn on the **Line through focal point**. Move the light bulb around. What do you notice about the reflected ray in this situation?

**The ray reflected is parallel to the principal axis.**

<b>Activity A:</b> <b>Real and virtual</b>	<b>Get the Gizmo ready:</b> <ul style="list-style-type: none"> <li>• Check that the <b>Concave mirror</b> is selected.</li> <li>• Turn on the <b>Parallel line</b>, <b>Central line</b>, and <b>Line</b></li> </ul>	
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# Gizmo Ray Tracing Mirrors Answers

**Clemens Wendtner**

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 Ray Tracing Mirrors Answers**

1. Understanding the eBook Gizmo Ray Tracing Mirrors Answers
  - The Rise of Digital Reading Gizmo Ray Tracing Mirrors Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Ray Tracing Mirrors Answers
  - 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 Ray Tracing Mirrors Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Ray Tracing Mirrors Answers
  - Personalized Recommendations
  - Gizmo Ray Tracing Mirrors Answers User Reviews and Ratings
  - Gizmo Ray Tracing Mirrors Answers and Bestseller Lists
5. Accessing Gizmo Ray Tracing Mirrors Answers Free and Paid eBooks

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