



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**.

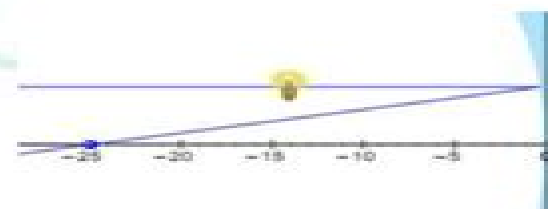
2. What do you see when you look at yourself in the back of a spoon?

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.

Activity A: Real and virtual	Get the Gizmo ready: • Check that the Concave mirror is selected. • Turn on the Parallel line, Central line, and Line	
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Answers For Gizmo Ray Tracing Mirrors

Roman Wölfel



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Table of Contents Answers For Gizmo Ray Tracing Mirrors

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

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