



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?

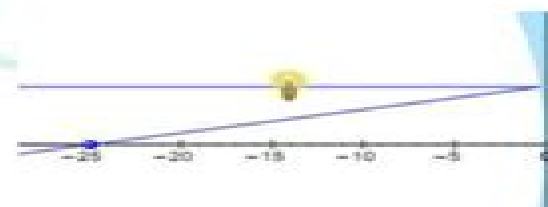
My reflection, but a bit distorted.

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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Ray Tracing Mirrors Gizmo Answers

Hermida



Ray Tracing Mirrors Gizmo Answers:

An Introduction to Ray Tracing, 1989 **Adventures in Ray Tracing** Hermida, 1995-08-01 **Ray Tracing Creations Book** Wells, **Practical Ray Tracing in C**. Craig A. Lindley, 1992 *Graphical Ray Tracing* Chan Street, 1973 Ray Tracing and Beyond E. R. Tracy, 2014 **Ray Tracing Creations Book** Young, 1994-11-01 *An Introduction to Ray Tracing*, 1989 Visualization of Volumetric Data by Ray Tracing Miloš Šrámek, 1996

Ray Tracing Mirrors Gizmo Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ray Tracing Mirrors Gizmo Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Ray Tracing Mirrors Gizmo Answers

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

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