



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?

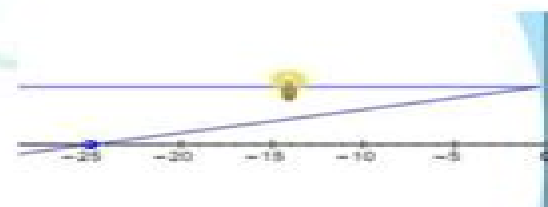
My reflection, but a bit distorted.

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: <ul style="list-style-type: none"> • Check that the Concave mirror is selected. • Turn on the Parallel line, Central line, and Line 	
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Ray Tracing With Mirrors Gizmo Answers

Young



Ray Tracing With Mirrors Gizmo Answers:

An Introduction to Ray Tracing, 1989 **Adventures in Ray Tracing** Hermida, 1995-08-01 **Practical Ray Tracing in C**. Craig A. Lindley, 1992 Ray Tracing Creations Book Wells, Graphical Ray Tracing Chan Street, 1973 **Ray Tracing Creations Book** Young, 1994-11-01 *Ray Tracing and Beyond* E. R. Tracy, 2014 **Adventures in Ray Tracing** Alfonso Hermida, 1993 Ray tracing is a technique with which photo realistic images can be created This book disk package illustrates the ray tracing process and includes the best ray tracing software available The software allows the reader to create images that resemble those used in many computer generated movies commercials etc Animation techniques and software are also included Fotorealismus und ray tracing in C Christopher D. Watkins, Stephen B. Coy, Mark Finlay, 1993

An Introduction to Ray Tracing, 1989 **Object-Oriented Ray Tracing in C++** Nicholas Wilt, 1994-01-11 Focuses on object oriented methods to greatly enhance both the speed of processing and the quality of the resulting graphics Includes a brief introduction to ray tracing as well as background on advanced topics A User s Manual is also included for the ray tracing class library with code examples for both basic and sophisticated ray tracing problems Available on disk is a ray tracing library with source codes *Ray Tracing and Radiosity Algorithms for Photorealistic Image Synthesis* Adrianus Johannes Franciscus Kok, 1994 *Visualization of Volumetric Data by Ray Tracing* Miloš Šrámek, 1996

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Table of Contents Ray Tracing With Mirrors Gizmo Answers

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

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