



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

E. R. Tracy

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.

Answers For Gizmo Ray Tracing Mirrors:

An Introduction to Ray Tracing ,1989 *Ray Tracing and Beyond* E. R. Tracy,2014

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

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

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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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