



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?

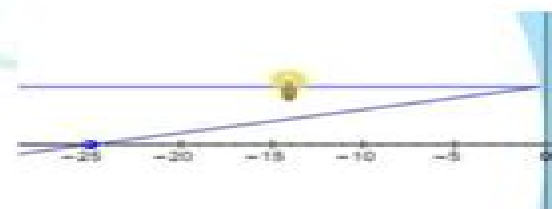
**My reflection, but a bit distorted.**

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><br><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> |  |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

# 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.

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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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