



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

Chao Zhang

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.

Ray Tracing With Mirrors Gizmo Answers:

The book delves into Ray Tracing With Mirrors Gizmo Answers. Ray Tracing With Mirrors Gizmo Answers is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ray Tracing With Mirrors Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ray Tracing With Mirrors Gizmo Answers
 - Chapter 2: Essential Elements of Ray Tracing With Mirrors Gizmo Answers
 - Chapter 3: Ray Tracing With Mirrors Gizmo Answers in Everyday Life
 - Chapter 4: Ray Tracing With Mirrors Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Ray Tracing With Mirrors Gizmo Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Ray Tracing With Mirrors Gizmo Answers in its entirety.
 4. In chapter 3, this book will examine the practical applications of Ray Tracing With Mirrors Gizmo Answers in daily life. The third chapter will showcase real-world examples of how Ray Tracing With Mirrors Gizmo Answers can be effectively utilized in everyday scenarios.
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