



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

D Siedentop

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:

This book delves into Answers For Gizmo Ray Tracing Mirrors. Answers For Gizmo Ray Tracing Mirrors 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 Answers For Gizmo Ray Tracing Mirrors, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answers For Gizmo Ray Tracing Mirrors
 - Chapter 2: Essential Elements of Answers For Gizmo Ray Tracing Mirrors
 - Chapter 3: Answers For Gizmo Ray Tracing Mirrors in Everyday Life
 - Chapter 4: Answers For Gizmo Ray Tracing Mirrors in Specific Contexts
 - Chapter 5: Conclusion
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