



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

**N Colangelo**

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 been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Answers For Gizmo Ray Tracing Mirrors**," compiled 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 into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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