



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**.

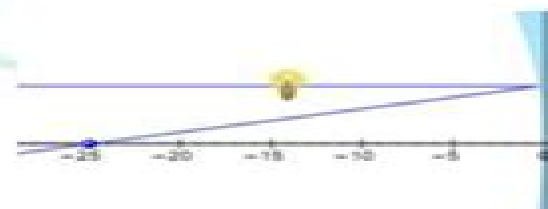
2. What do you see when you look at yourself in the back of a spoon?

**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> <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>	
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# Mirrors With Gizmos Worksheet Answers

**C Cleary**



## **Mirrors With Gizmos Worksheet Answers:**

## Enjoying the Melody of Phrase: An Emotional Symphony within **Mirrors With Gizmos Worksheet Answers**

In a world taken by monitors and the ceaseless chatter of immediate transmission, the melodic splendor and psychological symphony created by the published word frequently diminish into the backdrop, eclipsed by the constant sound and distractions that permeate our lives. Nevertheless, nestled within the pages of **Mirrors With Gizmos Worksheet Answers** a stunning fictional value full of natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that fascinating masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully constructed phrase. Within the depths of this emotional assessment, we shall discover the book is central harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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