



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**.

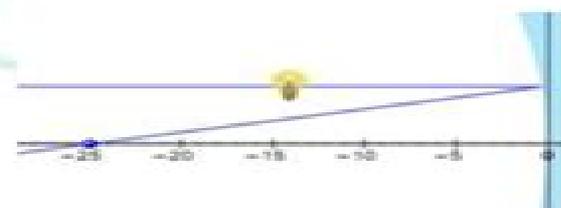
2. What do you see when you look at yourself in the back of a spoon?

**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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# Gizmo Answer Key Ray Tracing

**Wells**



**Gizmo Answer Key Ray Tracing:**

Adventures in Ray Tracing Hermida,1995-08-01    **Ray Tracing Creations Book** Wells,    **Ray Tracing Creations Book** Young,1994-11-01    **Graphical Ray Tracing** Chan Street,1973    Graphical Ray Tracing Graphical Ray Tracing Staff,    **GPU Ray Tracing in Non-Euclidean Spaces** Tiago Novello,Vinicius da Silva,Luiz Velho,2022    A Two-pass Solution to the Rendering Equation John Rogers Wallace,1988    **Ray-Tracing Based Interactive Camera Simulation** ,2012

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