



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?

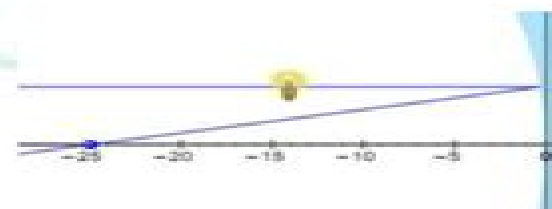
My reflection, but a bit distorted.

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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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:

Ray Tracing With Mirrors Gizmo Answers Book Review: Unveiling the Power of Words

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web dec 20 2019 the sliding tail vise works with a twin screw vise or end vise through use of dog holes in the jaw of the twin screw or end vise the sliding tail vise engages and clamps a workpiece to the bench the sliding tail vise is designed to move effortlessly along the surface of the workbench

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web sliding tail vise can be adapted to any workbench with an end vise included are 3 d cad diagrams with dimensions to accurately create the tail vise also included is a workbench sequences video demonstrating how to use the sliding tail vise in different applications

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web workbench build by rené b kassel germany with tail vise installation instructions while these instructions are helpful they cannot replace woodworking expertise we recommend that only experienced woodworkers try installing tailvise hardware this is the bench in which the tailvise was installed

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web the benchcrafted tail vise emerged and it has proven to be an excellent workholding solution solving all of the problems of traditional tail vises without sacrificing much in terms of function i e the ability to clamp between open front jaws