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## 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?

When I looked at the front of the spoon my face appeared to be inverted because the spoon is concave.

The front of a spoon is an example of a **concave mirror**.

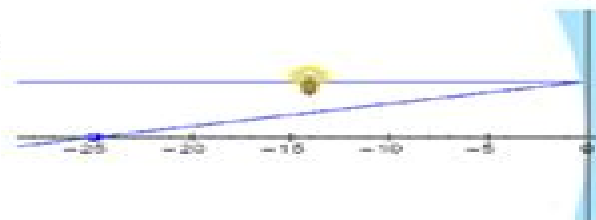
2. What do you see when you look at yourself in the back of a spoon? When I look at the back of the spoon my face is not inverted but it is stretched upwards due to it being convex.

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 that is reflected always stays parallel to x-axis no matter where the light bulb is placed.

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 reflected ray stayed parallel to the x-axis even when it was being moved around, and it also stayed perpendicular to the y-axis.

# Teacher Exploration Ray Tracing Mirrors

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## Teacher Exploration Ray Tracing Mirrors:

Exemplary Science In Informal Education Settings:Standards-Based Success Stories Robert E. Yager,2007-10-04 Just as science education doesn't stop at the schoolhouse door neither should effective application of the National Science Education Standards Exemplary Science in Informal Education Settings shows real world examples of how science education reform has taken hold in museums science centers zoos and aquariums as well as on television radio and the internet This essay collection the fifth volume in the Exemplary Science Monograph Series features 17 informal education programs that were judged to be most successful at increasing participants learning The programs demonstrate how the Standards can be used to inform and improve science education in a wide range of settings and with learners ranging from pre schoolers to older adults

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