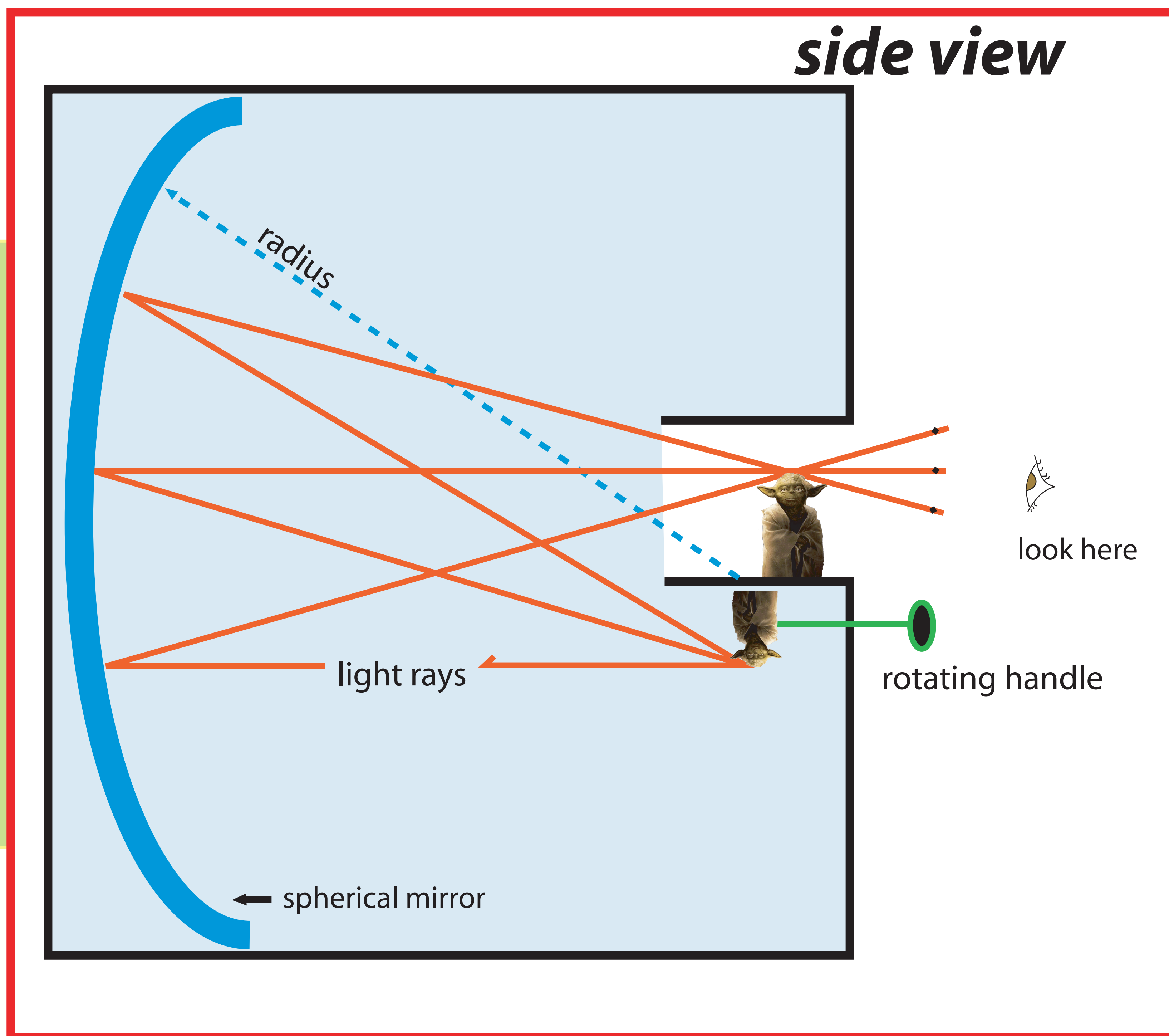


Can You Believe Your Eyes?

Touch and rotate YODA™

What to do:

- Try to "touch" the YODA™
- Shine the flashlight on the YODA™
- Rotate and move the YODA™ in and out watching what happens to the image.



How Does It Work?

A large curved mirror inside this exhibit makes an image that looks real enough to touch.

The diagram shows how the mirror reflects light to make an image. Light bounces off the real YODA™ and spreads out in all directions. Some of this light reflects from the mirror. The curve of the mirror makes the reflected light rays converge, so that light shining from each point on YODA™ comes back together at a single point.

When the light rays come back together, they make an image of YODA™. Light spreads out from the image and eventually reaches your eyes. When your eyes see this reflected light, you have no way of knowing whether it comes from the real YODA™ or from the image of YODA™.

When you shine the flashlight at the image of YODA™, the light goes into the box, reflects from the mirror, and lights up the real YODA™. Because YODA™ is brighter, its reflected image is brighter too.