

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Bending Beams and Silly Shadows: A 1st Grade Light Detective Quiz

Junior scientists trace glowing paths and predict how objects block or bend rays while solving everyday light puzzles.

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**1. Imagine you are in a dark room with a flashlight. Where must you point the light to see your favorite teddy bear?**

**Answer:** C) Directly at the bear

To see an object, light must hit it and then bounce back to our eyes.

**2. Light travels in a curvy, wiggly line like a snake.**

**Answer:** B) False

Light always travels in straight lines unless it hits something or moves through a new material.

**3. When you see your face in a shiny metal spoon, the light is \_\_\_ off the surface.**

**Answer:** A) Bouncing

Reflection happens when light bounces off a smooth, shiny surface like a mirror or a spoon.

**4. Why does a swimming pool look shallower than it really is when you look down into the water?**

**Answer:** B) Light bends when it moves from water to air

This is called refraction. Light changes direction (bends) when it leaves the water, tricking our eyes.

**5. A pair of \_\_\_ helps people see clearly by bending light so it hits their eyes just right.**

**Answer:** C) Eyeglasses

Eyeglasses use special lenses to bend light and help the eye focus on images.

**6. A shadow is created when an object blocks light from passing through.**

**Answer:** A) True

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Shadows are dark areas where light cannot reach because an object is in the way.

**7. If you shine a light through a clear glass of juice, the light will:**

**Answer:** B) Pass through and bend

Light can pass through clear or see-through liquids, but it slows down and bends slightly.

**8. To make a shadow on the wall get BIGGER, you should move your hand \_\_\_ the light source.**

**Answer:** A) Closer to

Moving closer to the light source blocks more of the light's path, making the shadow grow.

**9. Which of these objects would be best for reflecting light like a mirror?**

**Answer:** C) A shiny silver tray

Smooth and shiny surfaces are the best at reflecting light clearly.

**10. A magnifying glass makes bugs look bigger because it bends light.**

**Answer:** A) True

The curved lens in a magnifying glass bends light outward to make objects appear larger than they are.