

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

## Bending Light and Mirror Wonders Grade 5 Quiz

Ray tracing, medium density, and focal points — 10 questions analyzing how light interacts with translucent materials and curved surfaces.

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**1. A periscope allows a submarine crew to see above the water. Which optical phenomenon makes this possible using two mirrors?**

- A. Absorption
- B. Refraction
- C. Reflection
- D. Diffusion

**2. When light travels from air into a thicker material like a block of gelatin, the light slows down and causes the beam to \_\_\_\_.**

- A. Disappear
- B. Bend
- C. Speed up
- D. Turn black

**3. A magnifying glass is a type of converging lens that brings light rays together at a single point.**

- A. True
- B. False

**4. If you are standing in front of a flat mirror and raise your right hand, your 'reflection' appears to raise its \_\_\_\_ hand.**

- A. Right
- B. Left
- C. Both
- D. Neither

**5. Some security mirrors in hallways curve outward. These are called convex mirrors. What is their main advantage?**

- A. They make objects look upside down
- B. They provide a wider field of view
- C. They create heat from light rays
- D. They turn white light into rainbows

**6. Light travels at the exact same speed through air, water, and glass.**

- A. True
- B. False

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**7. Scientists use a 'prism' to demonstrate how white light is actually made of many colors. What process is happening inside the prism?**

- A. Reflection
- B. Refraction
- C. Opaqueness
- D. Shadowing

**8. A spoon is like a \_\_\_\_\_ mirror on the side that holds the food, because it curves inward like a cave.**

- A. Plane
- B. Convex
- C. Concave
- D. Invisible

**9. If you shine a flashlight at a mirror at a 45-degree angle, at what angle will the light bounce off?**

- A. 10 degrees
- B. 90 degrees
- C. 45 degrees
- D. 0 degrees

**10. Lenses work by reflecting light off their front surface to create an image.**

- A. True
- B. False