

Name: _____ Date: _____

Bending Beams and Shiny Surfaces: 5th Grade Optics Quiz

Imagine catching a beam of light with a hand mirror or watching a pool noodle 'snap' in the water as students identify reflection and refraction in action.

1. When you look into a shiny metal spoon and see your face, what is the light doing?

- A. Disappearing into the metal
- B. Bouncing off the surface
- C. Turning into heat
- D. Bending through the spoon

2. A pair of eyeglasses uses a ____ to help a person see more clearly by focusing light.

- A. Mirror
- B. Shadow
- C. Lens
- D. Opaque wall

3. True or False: Light travels in a straight line until it hits an object or enters a new material.

- A. True
- B. False

4. Which of these objects is designed to reflect as much light as possible?

- A. A piece of black construction paper
- B. A clear glass window
- C. A silver bathroom mirror
- D. A fuzzy wool sweater

5. The process of light bending as it moves from air into a swimming pool is called ____.

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

6. Why does a magnifying glass make a tiny ant look much larger?

- A. It adds more light to the ant
- B. It reflects the ant onto the ground
- C. It bends light rays inward toward your eye
- D. It changes the color of the ant

7. True or False: A shadow is created when an object reflects all the light hitting it.

- A. True

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B. False

8. An object that lets some light through but scatters it so you cannot see clearly, like a frosted shower door, is ____.

- A. Transparent
- B. Opaque
- C. Translucent
- D. Reflective

9. Which tool would a scientist use to see stars that are very far away in space?

- A. Microscope
- B. Telescope
- C. Periscope
- D. Magnifying Glass

10. True or False: Smooth water can act like a mirror.

- A. True
- B. False