

Name: _____ Date: _____

Super Shiny Science: Second Grade Optics Quiz

Students investigate how light behaves when hitting shiny spoons or passing through a glass of water during this hands-on science station review.

1. If you are standing in a dark room with no windows and the lights are off, why can't you see your favorite toy?

- A. The toy is hiding in the shadows.
- B. There is no light to bounce off the toy and enter your eyes.
- C. Your eyes only work when it is warm outside.
- D. The toy changed its color to black.

2. When you look into the back of a shiny metal spoon, your face looks upside down because the light _____ off the curved surface.

- A. breaks
- B. disappears
- C. reflects
- D. soaks

3. Light always travels in a perfectly straight line, even when it moves from air into a pool of water.

- A. True
- B. False

4. Which of these objects is designed specifically to bend light so that tiny words look much bigger?

- A. A piece of cardboard
- B. A wooden ruler
- C. A magnifying glass
- D. A flat bathroom mirror

5. A _____ surface, like a calm pond or a window, allows you to see a clear reflection of yourself.

- A. smooth
- B. bumpy
- C. fuzzy
- D. dark

6. Eyeglasses help people see better because the glass lenses bend light to help it focus on the back of the eye.

- A. True
- B. False

7. If you shine a flashlight at a brick wall, why don't you see your reflection?

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- A. The wall is too far away.
- B. The light passes right through the bricks.
- C. The wall is bumpy and scatters the light in many directions.
- D. Bricks drink the light like water.

8. When you put a pencil in a half-full glass of water, it looks like the pencil is _____ at the edge of the water.

- A. growing
- B. broken
- C. glowing
- D. melting

9. A dark, black t-shirt reflects more light than a bright, white t-shirt.

- A. True
- B. False

10. Which of these is the best example of refraction in nature?

- A. A shadow on the sidewalk
- B. A colorful rainbow in the sky
- C. Seeing your face in a puddle
- D. A cat glowing in the dark