

Name: _____ Date: _____

Why Does My Shadow Move? 1st Grade Light Detective Quiz

Engage young investigators with scenarios requiring analysis of light paths and material transparency for a science station or formative assessment.

1. A magician wants to hide a rabbit behind a screen. Which material should the magician choose so the audience CANNOT see the rabbit at all?

- A. A clear glass window
- B. A piece of thin tissue paper
- C. A heavy wooden board
- D. A plastic sandwich bag

2. If you shine a flashlight at a ____, the light will bounce off and hit the wall behind you.

- A. Black rug
- B. Shiny metal tray
- C. Clear bowl of water
- D. Pile of leaves

3. True or False: A shadow will get smaller if you move an object closer to the light source.

- A. True
- B. False

4. You are playing hide-and-seek. You hide behind a frosted glass shower door. The seeker can see a blurry shape but not your face. This door is:

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

5. To stay cool on a very hot, sunny day, you should wear a ____ shirt because it reflects more sunlight away from your body.

- A. Dark black
- B. Dull brown
- C. Bright white
- D. Deep navy blue

6. True or False: Light always travels in a straight line unless it hits something.

- A. True
- B. False

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7. Look at a spoon. Your reflection looks upside down on one side but right-side up on the other. Why does the spoon change how you look?

- A. The spoon is transparent
- B. The spoon's surface is curved
- C. The spoon is soaked in water
- D. The spoon absorbs all light

8. If you are standing outside at noon when the sun is directly above your head, your shadow will be ____.

- A. Very long
- B. Very short
- C. In front of you
- D. Behind you

9. True or False: You can see a book in a completely dark room if you wait for your eyes to adjust.

- A. True
- B. False

10. Which of these objects would be best for sending a signal using light to a friend across a field?

- A. A piece of clear plastic wrap
- B. A cardboard box
- C. A small hand mirror
- D. A dark winter coat