

**CREST**  
*Olympiads*  
#CRESTInnovator



# CREST Science Olympiad (CSO) **Worksheet** *for* **Class 6**



**Topic**  
**Light**



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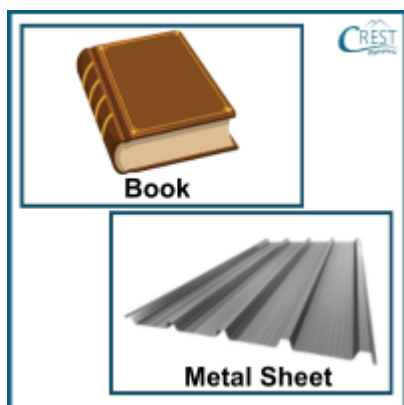
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## Worksheet on Light

1. When Gina uses a pinhole camera to observe her school bus, what would she observe?
  - a. A larger and magnified image of the school bus.
  - b. A clear and detailed image of the school bus.
  - c. No image would be visible through a pinhole camera.
  - d. An inverted and smaller image of the school bus.
2. Rosa glanced at the view outside her house through the frosted window. What is she likely to observe?
  - a. A clear and unobstructed view of the weather outside.
  - b. A distorted and hazy view of the weather outside.
  - c. No view at all, as the frosted window blocks the visibility completely.
  - d. A magnified and enhanced view of the weather outside.
3. What would happen to the path of light if it encounters the following objects?



- a. Light would change its direction abruptly
  - b. Light would continue to travel in a straight line without any deviation
  - c. Light would slow down and move in a curved path
  - d. Light would not pass through the objects
4. Identify the objects that allow light to pass through them from the following list.
  - I. Optical lenses
  - II. Rice paper
  - III. Clear plastic
  - IV. Ceramic objects
  - V. Mirror
  - VI. Tinted glass
  - a. I, V and VI
  - b. III and V
  - c. I and III
  - d. I, III and V

**5. How would you make a pinhole camera using everyday materials?**

- a. Cut a small hole in a shoebox and place a piece of tracing paper at the opposite end.
- b. Attach a magnifying glass to a camera to focus light.
- c. Use a mirror to reflect light onto a screen.
- d. Place a candle inside a glass jar to create a diffused light source.

**Answer Key**

- 1. d - When using a pinhole camera, the small hole acts as a lens, allowing light rays from different parts of the school bus to enter and form an image on a screen inside the camera. The image formed by a pinhole camera is typically inverted, meaning it appears upside down compared to the actual object. Additionally, the image produced on the screen is smaller in size than the school bus.
- 2. b - Frosted windows have a textured or patterned surface that scatters the incoming light. As a result, the view through a frosted window appears distorted and hazy, making it difficult to see the weather outside with clarity. The scattering of light by the frosted surface creates a diffused effect, blurring the details of the view.
- 3. d - When light encounters an opaque medium, such as a wall or a metal, it cannot pass through the medium. Opaque objects block the passage of light, resulting in no transmission of light through the material.
- 4. c - Optical lenses and clear plastic are transparent objects that allow light to pass through them without any distortions.
- 5. a - To create a pinhole camera using everyday materials, one can take a cardboard box and make a small hole in one side. Then, at the opposite end of the box, place a translucent material like tracing paper or a white sheet. This arrangement allows light to enter through the pinhole, form an inverted image on the tracing paper, and create a basic pinhole camera.

**More Questions Coming Soon – Keep Learning!**



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