



Transparent, Translucent and Opaque Objects

A. Choose the Correct Answer:

1. Which of the following is an example of a transparent object?

- A) Wooden door
- B) Frosted glass
- C) Clear glass
- D) Cardboard

2. What happens when light passes through a translucent object?

- A) All light passes through clearly
- B) Some light passes through, but not clearly
- C) No light passes through
- D) The object becomes invisible

3. Which of these materials is an opaque object?

- A) Plastic wrap
- B) Steel plate
- C) Wax paper
- D) Clean water

B. Fill in the Blanks:

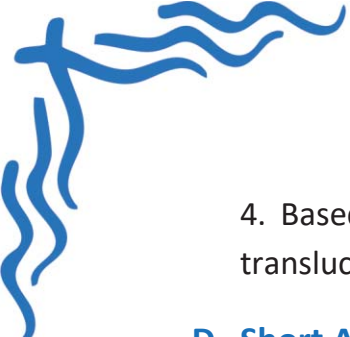
1. Objects that allow light to pass through completely are called _____ objects.
2. A piece of wax paper is an example of a _____ object.
3. Opaque objects do not allow _____ to pass through them.

C. Case Study:

Rohan was playing in his room when he noticed that light passed through the glass window, making everything outside clearly visible. However, when he looked at the bathroom window made of frosted glass, he could see light but not clear shapes. Later, he placed a thick book in front of a lamp and saw that no light passed through it.

Case Study Questions:

1. Which object in Rohan's observation was transparent?
2. Why was Rohan unable to see clear shapes through the frosted glass?
3. What happened when Rohan placed a book in front of the lamp? Why?

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4. Based on Rohan's observation, explain the difference between transparent, translucent, and opaque objects.

D. Short Answer Questions:

1. What is the main difference between transparent, translucent, and opaque objects?
2. Give one example each of a transparent, translucent, and opaque object.
3. Why do we use translucent glass in bathroom windows instead of clear glass?

E. Long Answer Questions:

1. Explain with examples how transparent, translucent, and opaque objects affect the passage of light.
 2. Why do we use transparent materials for windows and opaque materials for walls?
 3. Describe a real-life situation where we use all three types of materials—transparent, translucent, and opaque.
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