

A Journey of Light

Chapter 7: A Journey of Light · Topic 1

Key Concept

Light travels in straight lines, which is why shadows form when an object blocks light, creating a dark area behind it.

Reflection occurs when light bounces off a surface, like how we see ourselves in a mirror due to reflected light.

Refraction occurs when light bends as it passes from one medium to another, like a straw appearing bent in a glass of water.

Understanding light's properties helps explain everyday phenomena like mirrors, shadows, and why objects appear different in water.

Quick Revision Notes

- Light travels in straight lines.
- This is why shadows form (light blocked).
- Reflection: light bounces off a surface.
- Example: seeing ourselves in a mirror.
- Refraction: light bends between mediums.
- Example: straw appears bent in water.
- These explain everyday light phenomena.
- This includes mirrors and shadows.

Practice Questions

- 1 Observe and draw a shadow forming.
- 2 Observe your reflection in a mirror.
- 3 Place a straw in water and observe refraction.
- 4 Discuss why light travels in straight lines.
- 5 Draw a diagram showing reflection.
- 6 Draw a diagram showing refraction.