

Light

Chapter 5: Light · Topic 1

Key Concept

Light travels in straight lines, which is why we cannot see around corners without a mirror or other reflective surface.

Reflection occurs when light bounces off a surface, like a mirror, allowing us to see our reflection.

Refraction occurs when light bends as it passes from one medium to another, like from air into water, making objects appear shifted.

Understanding light helps us explain how we see, how mirrors and lenses work, and many natural phenomena like rainbows.

Quick Revision Notes

- Light is a form of energy.
- Light allows us to see.
- Light travels in straight lines.
- Reflection is light bouncing off a surface.
- Mirrors work through reflection.
- Refraction is light bending between mediums.
- Refraction happens between air and water.
- Light explains rainbows and other phenomena.

Practice Questions

- 1 Observe your reflection in a mirror.
- 2 Discuss why we can't see around corners without a mirror.
- 3 Put a straw in water and observe refraction.
- 4 Research how a rainbow forms.
- 5 Explain the difference between reflection and refraction.
- 6 Draw a diagram showing light reflecting off a mirror.