

Understanding Shadows

Chapter 4: Shadow Story (Togalu) · Topic 1

Key Concept

Shadows form because light travels in straight lines, and when something blocks the light, a dark area (shadow) appears on the other side.

The size and shape of a shadow can change depending on where the light is coming from - a shadow is longer when the light source (like the sun) is low, and shorter when it is high up.

We can observe our own shadow at different times of day to notice how it changes - our shadow is very long in the early morning and evening, and shortest around midday.

Understanding shadows also helps us learn about the position of the sun and how it moves across the sky during the day.

Quick Revision Notes

- A shadow forms when an object blocks light.
- Light travels in straight lines.
- Shadow size depends on where the light comes from.
- A shadow is longer when the light source is low.
- A shadow is shorter when the light source is high.
- Our shadow is longest in early morning and evening.
- Our shadow is shortest around midday.
- Shadows help us understand the sun's position.

Practice Questions

- 1 Observe your shadow in the morning, noon, and evening.
- 2 Draw your shadow at two different times of day.
- 3 Use a torch and an object to make a shadow indoors.
- 4 Explain why shadows change size during the day.
- 5 Find an object outside and observe its shadow.
- 6 Discuss why the sun's position affects shadow length.