

Core Skills Analysis

Science

- Understood fundamental properties of light, such as how it travels and behaves in different situations.
- Explored the concept of reflection and refraction by observing how light changes direction or bounces off surfaces.
- Developed observational skills by experimenting with light sources and materials to see effects like shadows or color dispersion.
- Gained early knowledge about how light enables us to see objects and the importance of light in everyday life.

Tips

To deepen understanding of light, encourage hands-on experiments involving prisms or water to explore refraction and color separation. Introduce simple activities that demonstrate shadows and the effects of blocking light to foster curiosity about how light interacts with objects. Use storytelling or creative drawing to illustrate concepts like how eyes detect light, or how light is essential for plants through photosynthesis. To add a technological perspective, building a basic flashlight or exploring how lenses work can broaden comprehension beyond fundamental properties.

Book Recommendations

- [Light: Shadows, Mirrors, and Rainbows](#) by Natalie M. Rosinsky: An engaging, illustrated introduction to light properties, including reflection, refraction, and color.
- [Light and Color](#) by Jennifer Boothroyd: Explores how light creates colors and the science behind rainbows and shadows in a way accessible to children.
- [The Magic School Bus: Polarized Light](#) by Joanna Cole: A fun adventure that introduces concepts of light waves and their behavior through a science fiction story.

Learning Standards

- Science Understanding ACSSU155: Different types of change involve different systems, including light and how it affects day and night.
- Science Inquiry Skills ACSIS231: Plan and conduct simple investigations to observe and describe light behavior.
- Science as a Human Endeavour ACSHE051: Science knowledge helps us understand the world and make useful predictions about light phenomena.

Try This Next

- Create a worksheet that asks students to identify and draw examples of light reflection and refraction in everyday objects.
- Design a shadow experiment journal where children track how shadows change length and direction at different times of day.