

Nova's Guide to the Science of Light

Learning objective: To explain how light travels and how we see objects, using scientific vocabulary.

Use this writing frame to help you structure your explanation of light. Remember to use the word bank to link your ideas together and include the scientific concepts we have learned in class.

Light is a form of energy that allows us to see the world around us, but have you ever wondered how it actually works?

Word bank: straight lines · reflection · luminous · non-luminous · travels · source · pupil · retina · bounces off · therefore · consequently · furthermore

1. Introduction: What is a light source? Start by defining light and giving examples of luminous objects... (2 marks)

2. How Light Travels: Describe how light moves from a source. Use the phrase 'straight lines' to explain its path... (3 marks)

3. Reflection: Explain what happens when light hits a non-luminous object. How does it 'bounce off' to reach our eyes? (3 marks)

4. The Human Eye: Describe the journey of light once it enters the eye. Mention the pupil and how we perceive the image... (3 marks)

5. Conclusion: Summarise why light is essential for our daily lives. Why would we be unable to see in complete darkness? (2 marks)

Extension challenge: Nova the Owl wants to know: If you were in a room with no windows and the power went out, why would you be unable to see your favourite book? Write a short paragraph explaining the relationship between light sources and visibility.