

Nova's Light and Shadow Assessment

Learning objective: To identify light sources, understand how light travels, and explain how shadows are formed.

Read each question carefully. Use the word bank to help you spell tricky words. Write your answers in the spaces provided. You can do this!

Nova the owl is stargazing. She knows that we need light to see things. When light hits an object, it can bounce off or be blocked. When light is blocked, a shape appears on the ground.

Word bank: Light source · Shadow · Reflection · Opaque · Transparent · Sun · Darkness · Blocked

1. 1. Nova looks at the Sun. Is the Sun a light source? Explain why. (2 marks)

2. 2. Name two things that are light sources. (2 marks)

3. 3. What is a shadow? Use the word 'blocked' in your answer. (3 marks)

4. 4. If you have a clear glass of water, does it make a dark shadow? Why or why not? (3 marks)

5. 5. Why is it dangerous to look directly at the Sun? (2 marks)

6. 6. Nova is reading a book at night. She uses a torch. Describe how the light helps her see the words on the page. Use the words 'light source' and 'reflection' in your answer. (4 marks)

7. 7. Extended Writing: Imagine you are walking in the park on a sunny day. Describe how your shadow changes as you walk past a lamp post. Why does the shadow change shape and size? (9 marks)

Draw: Draw a picture of a torch shining on a ball. Draw the shadow that the ball makes on the wall behind it.

Extension challenge: Total: /25