

Nova's Light and Shadow Investigation

Learning objective: To identify that light is required to see things and recognise that shadows are formed when light is blocked by an opaque object.

Hello! Nova the owl is investigating how shadows are made. Use this sheet to record your findings. Read the questions carefully and use the word bank to help you write your answers. You can use the sentence starters provided.

Word bank: light · shadow · opaque · blocked · source · dark

1. 1. What is a light source? (Hint: Think about what gives us light.) (2 marks)

2. 2. How is a shadow made? (Sentence starter: A shadow is made when an object ____ the light...) (2 marks)

3. 3. What happens to the shadow if you move the light source closer to the object? (2 marks)

4. 4. Why can we not see a shadow in a room with no light at all? (2 marks)

Extension challenge: Find an object in your classroom that is transparent and one that is opaque. Can you explain the difference to a partner?