

Nova's Light and Shadow Lab

Learning objective: To identify light sources and understand that shadows are formed when light is blocked by an opaque object.

Nova the owl is exploring light. Look at the items in the list below. Decide if each item is a 'Light Source' (it makes its own light) or an 'Object' (it does not make its own light). Write the name of the item in the correct box. Then, answer the questions about how shadows are made.

Word bank: Torch · Sun · Book · Mirror · Candle · Teddy bear · Light Source · Object

1. Sort these items into the table: Torch, Sun, Book, Mirror, Candle, Teddy bear. (4 marks)

2. What happens to light when it hits an opaque object like a book? (2 marks)

3. If you move a torch closer to an object, what happens to the size of the shadow? (2 marks)

4. Why can we not see a shadow in the dark? (2 marks)

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



Extension challenge: Find three things in your classroom that reflect light. Write them down in your book.