



# Linked learning theme: Ancient Egypt – Walk like an Egyptian

Spring term, Year 6

## Science – How does light travel?

### Prior Knowledge

In Y4, children learnt about electricity and making a circuit to light a bulb. In Y3, they learnt about reflections and shadows.

### Core knowledge

- Light appears to travel in straight lines.
- Shadows are cast in the shapes of the object casting them because light travels in straight lines.
- Light can reflect from objects.
- Humans see by light reflecting from an object or being produced from a source, such as the sun, and travelling into their eyes.

### Key skills

- Identify causal relationships between the position of a light source and the object blocking the light stream to make predictions about the casting of a shadow.
- Plan an enquiry to identify the surfaces that light best reflects off.
- Carefully observe the ways that light reflects from surfaces.
- Record observations in a factual manner.

### Vocabulary

Cast	Reflect	Retina
Light	Eye	
Shadow	Pupil	

### Learning outcomes

- I recognise that light appears to travel in straight lines.
- I can use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- I can explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.
- I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.