



Linked learning theme: Roman Remains

Spring term, Year 3

Science – Light

Prior Knowledge

In Y1, children learnt about the four seasons and weather changes.

Core knowledge

- Light is needed to see objects.
- Dark is the absence of light.
- Light reflects off of surfaces.
- Light from the sun can be dangerous.
- Shadows are formed when light from a light source is blocked by an opaque object.
- Opaque objects block light completely.
- Transparent objects allow light to pass through completely.
- Translucent objects allow some light to pass through.

Key skills

- Carefully observe, measure and record how the size of shadows can change and draw conclusions from this.
- Identify whether a material is opaque, transparent or translucent.
- Ask relevant questions about light, dark and shadows.

Vocabulary

Light	Transparent	Dark
Shadow	Translucent	
Opaque	Reflection	

Learning outcomes

- I know that I need light in order to see things and that dark is the absence of light.
- I can notice that light is reflected from surfaces.
- I know that light from the sun can be dangerous and that there are ways to protect their eyes.
- I know that shadows are formed when the light from a light source is blocked by an opaque object.
- I can find patterns in the way that the size of shadows change.
- I can set up simple practical enquiries, comparative and fair tests.
- I can make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment.