

Science Knowledge Organiser

Working Scientifically (Term 6)

Year 4

Our learning

In our science lessons this term, we will be working scientifically with our knowledge of light and shadows. This is part of the **physics** aspect of science and will help us to develop the skills to become a scientist.

We will look at using our scientific knowledge to identify **patterns** from the data we collect and use them to explain our findings.

Ask a question

Plan an investigation

Make a prediction

Complete your investigation

Display your results

Explain what you found out

Information

Lurking in the shadows

Dark is the absence of light.

Shadows are **formed** when light from a **light source** is blocked by a solid (opaque) object.

Shadows can be different sizes, shapes and **tones**.

As a scientist I will...

- Recognise when a fair test is necessary.
- Use data to make predictions.
- Make careful and accurate observations
- Use scientific evidence to support my findings.
- Identify similarities and differences when talking about scientific processes.



Vocabulary



Explanation



Explain something to make



it understandable



Evidence



Something used



to



support



your



ideas



Opaque



Material



you



cannot



see



through



Transparent



Material



you



can



clearly



see through



Translucent



Material



you



can



see through



a bit

Eratosthenes discovered lots about shadows and how they worked.

