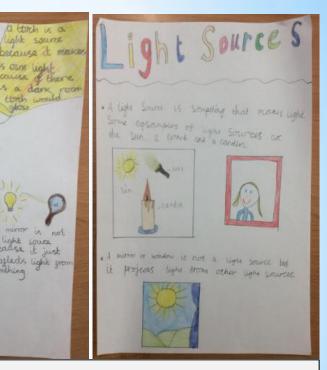


Class Tamar Science Light

We learnt that there are a huge range of different light sources and were able to identify these





We played a 'what's in the bag?'...

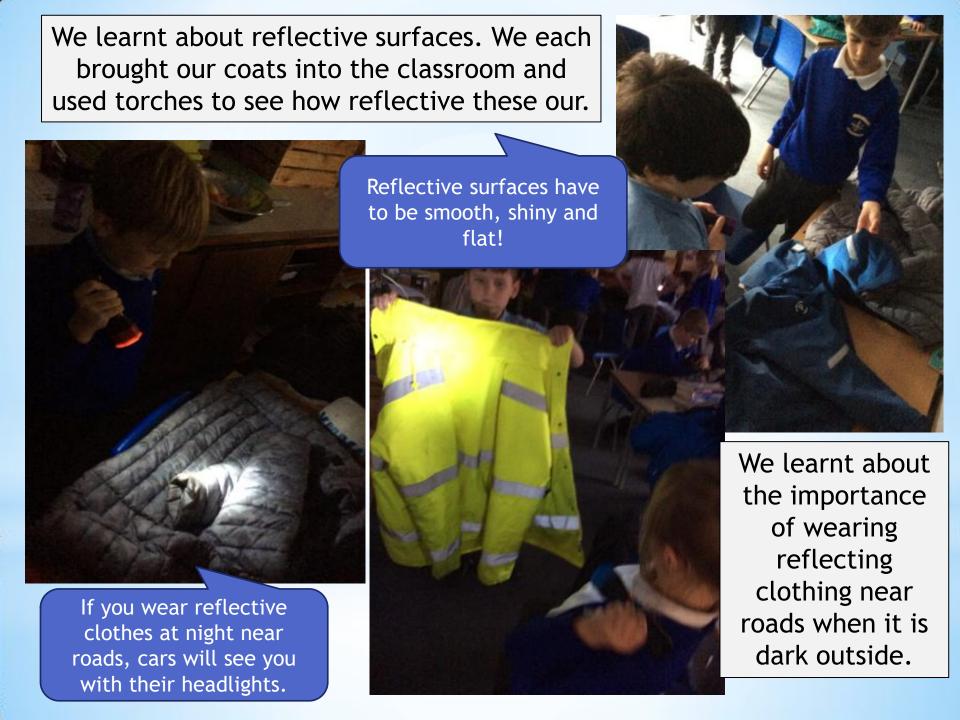
The only way we can see the objects is if we open the bag!

light source

use of there

If we open the bag it'll let light in and we will see what the object is.

Darkness is the absence of light!





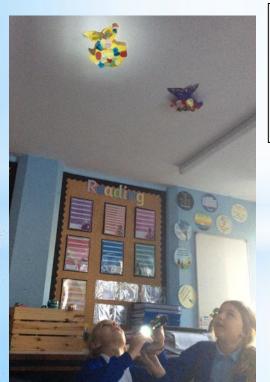




When the light rays hit the smooth mirror, they all bounce off at the same angle, creating a clear reflection.



When the light rays hit a rough surface, they scatter in all different directions, so it doesn't reflect well



We used mirrors to reflect beams of light onto other surfaces. This showed us that light travels in straight lines!

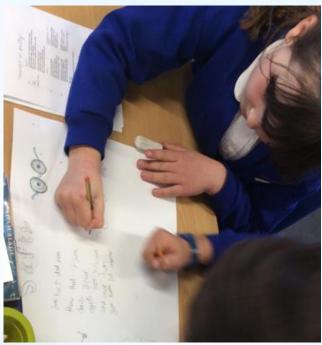






We learnt that light from the sun can be dangerous and that there are ways we can protect our eyes.









We observed how our pupils change when we let in more light into our eyes.

When the light turns on our pupils get smaller!

When the light turns off our pupils got bigger.

We planned and set up an experiment to test how shadows change in different light.











We thought carefully about how we will make this a fair test.

We have to make sure that we keep the object in the same place each time we move the light away.

We recorded our findings and concluded that shadows get smaller as the light source gets further away.

We must make sure that we measure it in the same way for each go.

Science

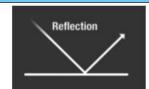
FLE Y3/4

Light

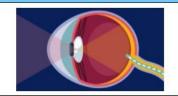
What I have learnt before:

I know different light sources.

I know how shadows can be made.







Forever Facts

We need light to be able to see things.

Light travels in straight lines. When light hits an object, it is reflected (bounces off). If the reflected light hits our eyes, we can see the object.

Some surfaces reflect light well and some do not. Reflective surfaces can be very useful (for example, hivis jackets).

Mirrors reflect light well, so they create a clear image.

The surface that reflect light best are smooth, shiny and flat.

A shadow is caused when light is blocked.

The pupils control the amount of light entering the eyes. If too much light enters then it can damage the retina. To help protect our eyes, you can wear a hat with a wide brim and sunglasses with a UV rating.

Skills

I can begin to make theories and provide explanations using scientific language.

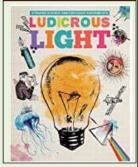
I can record findings using scientific language.

I can make and record observation.

I can make careful observations and comparisons.

I can ask relevant questions,

Exciting Books



Our Endpoint

To use scientific vocabulary to explain my findings to an investigation about changing shadows.

Subject Specific Vocabulary

light	A form of energy that travels in a wave from a source.
dark	The absence of light.
shadows	An area of darkness where light has been blocked.
Light source	An object that makes its own light.
reflection	The process where light hits the surface of an object and bounces back into our eyes.
reflect	The bounce off.
reflective	This word describes something which reflects the light well.
ray	Waves of light are called light rays, they can also be called beams.
pupil	The black part of the eye which lets light in.
retina >	A layer at the very back of the eye. The retina takes the light the eye receives. It then changes it into nerve signals to send to the brain.

Culture capital: Children will gain skills to be able to understand and communicate scientific concepts.