

Science

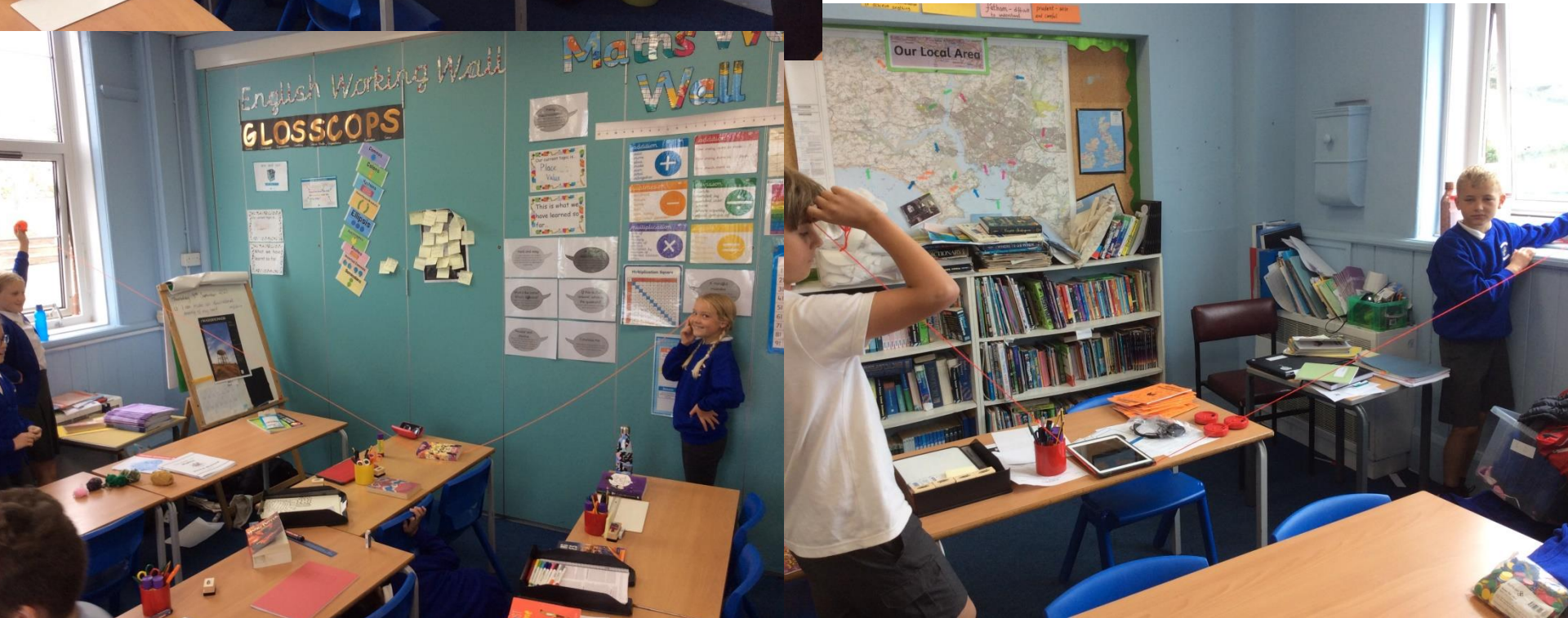
Light

Autumn 2021

Class Lynher



We learnt that for us to see an object, light goes from a light source in a straight line, reflects off the object and into our eyes.

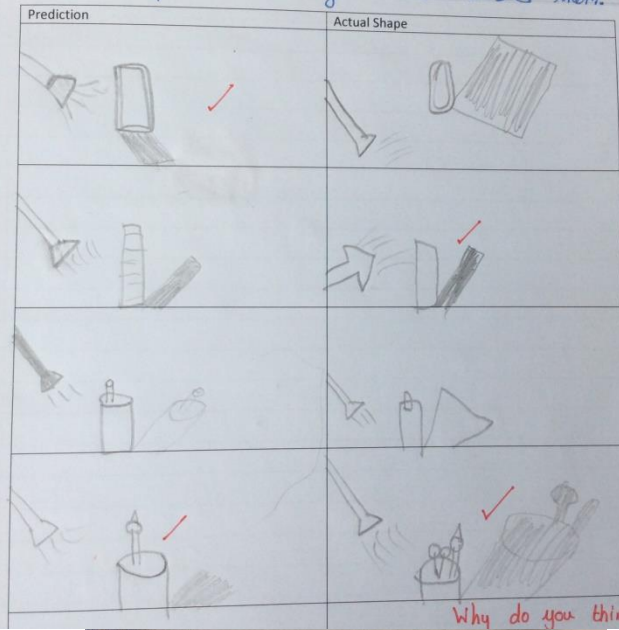


We recapped our knowledge of shadows which are made when an opaque object blocks light from a light source.

We predicted what shadows of different objects would look like.

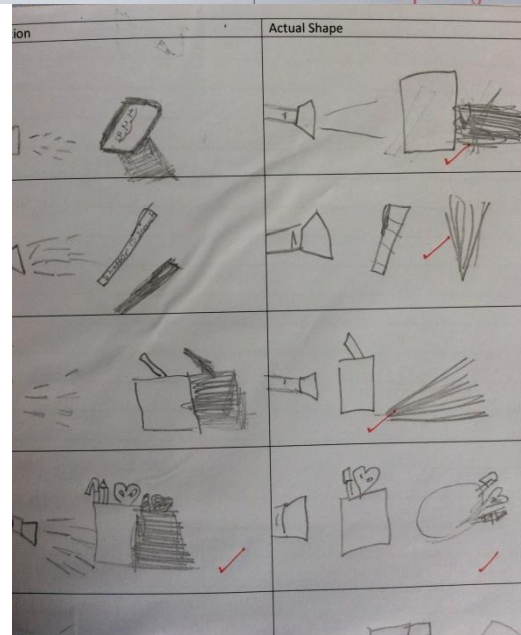
We made the shadows and recorded our observations.

Friday, 24th September 2021
I can explain why shadows have the same shape as the object that casts them.



The shadows had the same shape as the object.

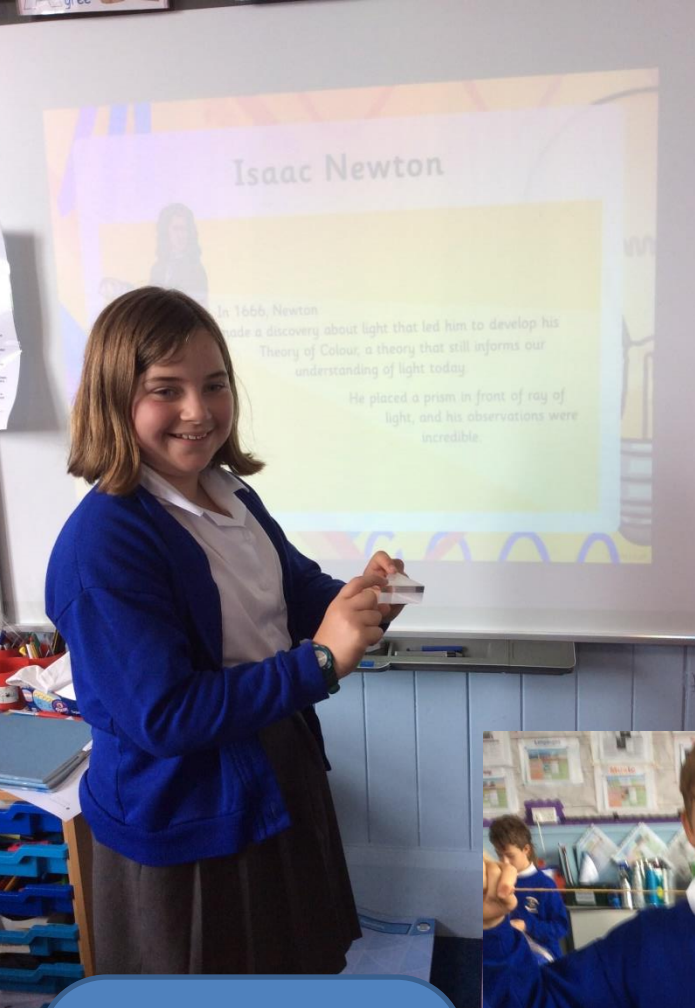
You can change what they shadow looks like by shining the torch on a different side of the object, changing the angle of the torch or moving the torch closer to the object..



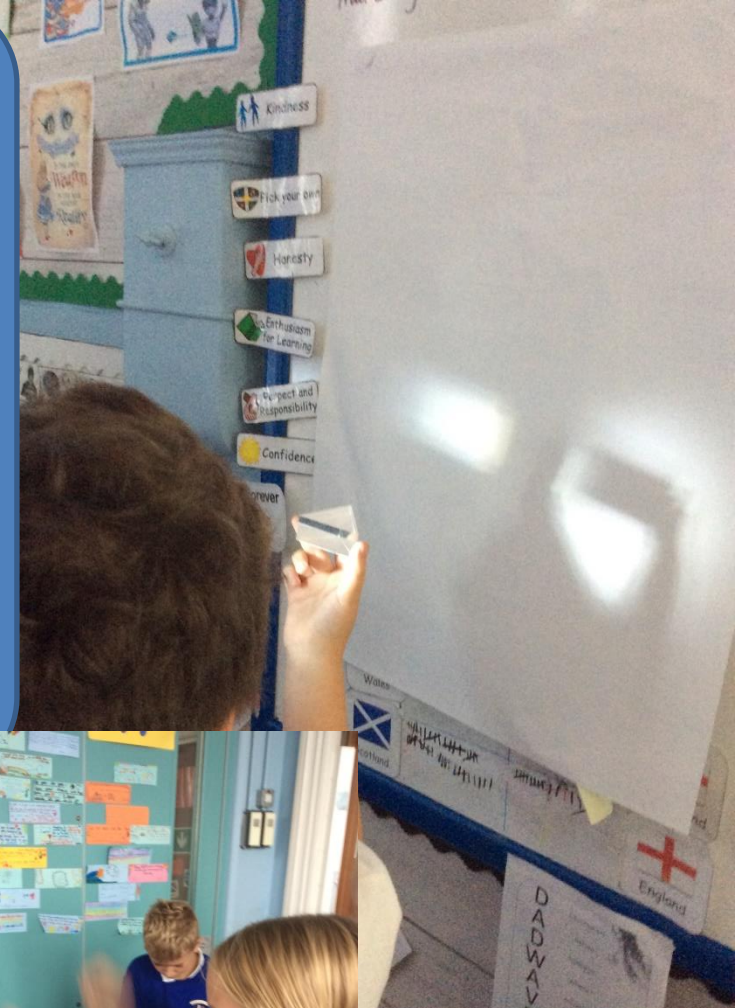


We had fun with refraction. We watched a scientist showing how it worked and then tried a couple of experiments ourselves. We could make things disappear or change direction.

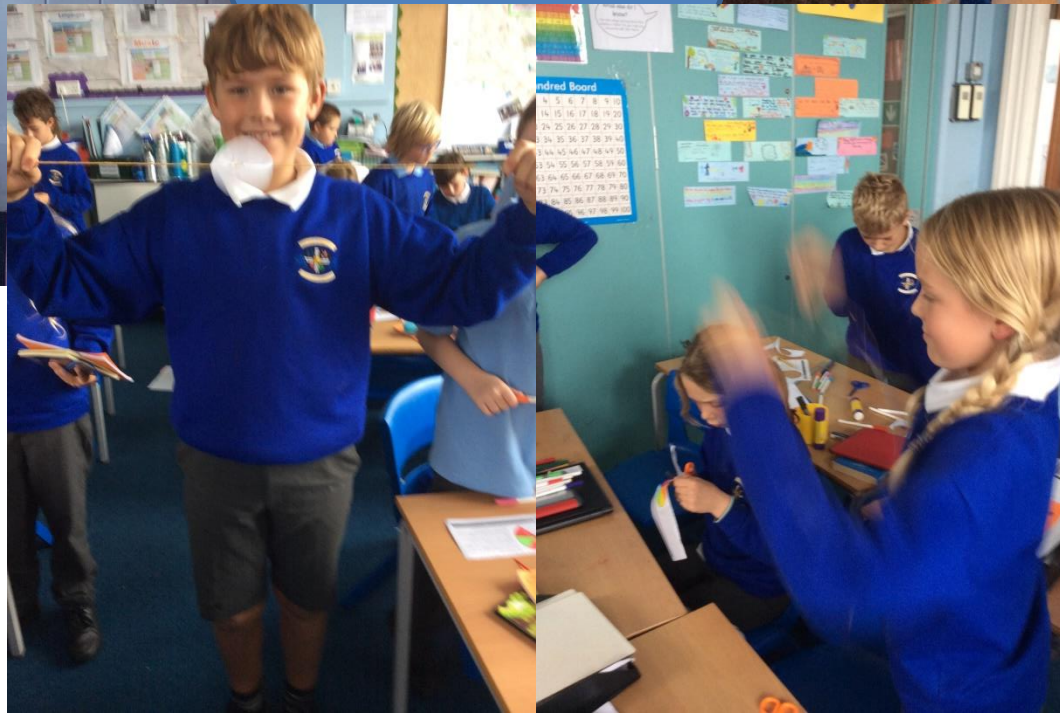




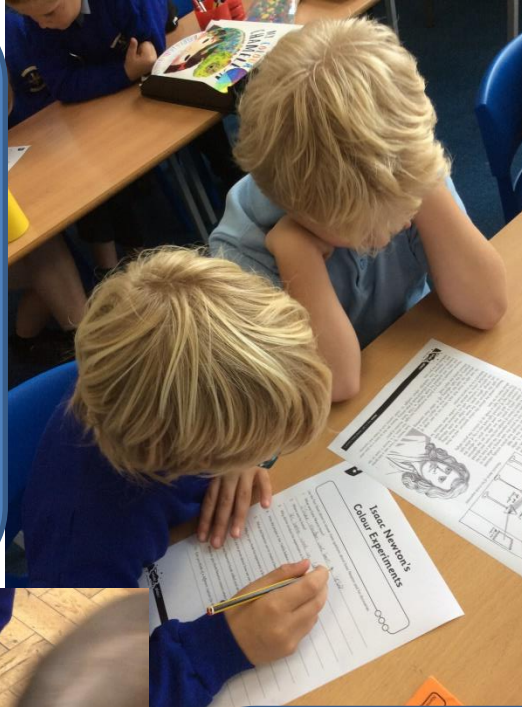
We learnt about Isaac Newton's theory of light and were able to make our own rainbow using a prism.



By making a spinner with all the colours, when you spun it, it looked white.



We read about how Isaac Newton proved that light was made up of different colours.

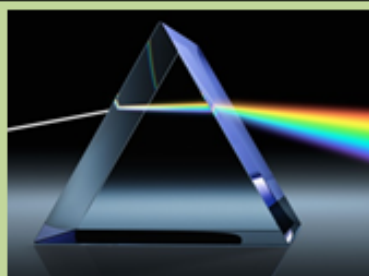
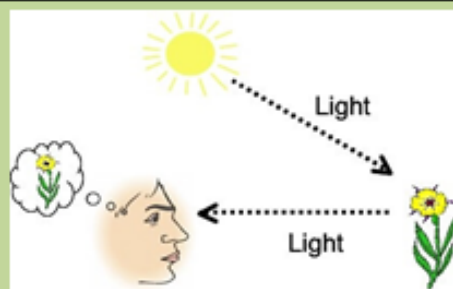


Our predictions were right for some but others looked completely different to what we thought.



Then we had fun putting different filters on top of coloured numicon pieces to see what colour they looked.



**What I have learnt before:**

I have learnt about light and dark

I have learnt how shadows change through the day

Forever Facts

Light travels in straight lines

Objects are seen because they give out/ reflect light

We see because light reflects from an object and into our eye

Shadows have the same shape as the object blocking the light

Skills

I can make observations and conclusions

I can answer questions based on my learning

I can support my ideas with known facts

I can use straight forward scientific evidence

I can identify scientific evidence used to support/refute ideas

Exciting Books**Our Endpoint**

I can create a periscope
I have experienced light
phenomenon

Subject Specific Vocabulary

light source	anything that makes light, whether natural or artificial
reflect	throw back without absorbing it
straight line	a line traced by a point travelling in a constant direction
periscope	an apparatus using mirrors or prisms which allows you to see things that are otherwise out of sight
transparent	allows light to pass through so that objects can be distinctly seen
opaque	not able to be seen through
shadow	a dark area or shape produced by something

Cultural Capital

The jobs it can be used in are: Optician, Staging, Film production. Real life knowledge it links to is using secondary sources of information.