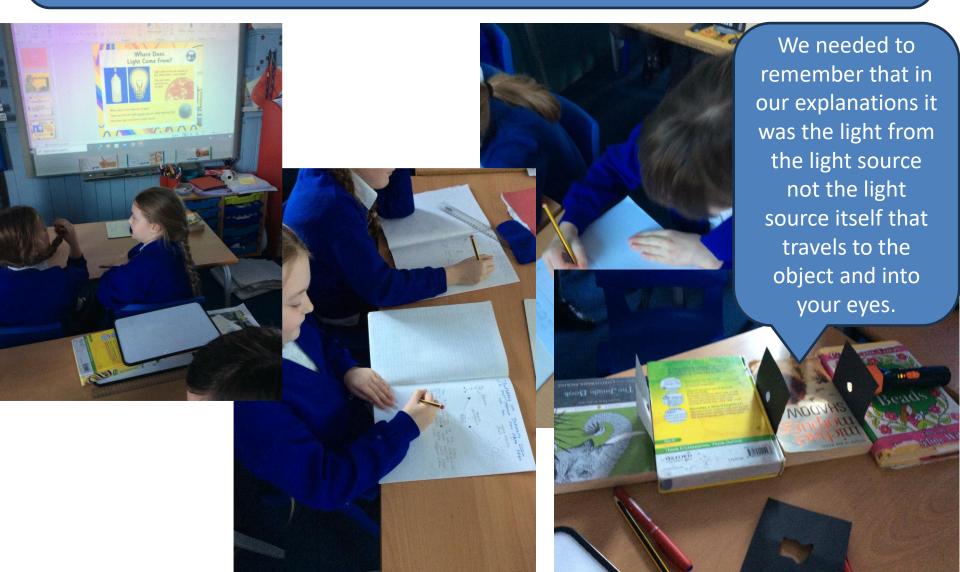


## How does light enable us to see?

Spring 1 2024

**Class Lynher** 

We began by reviewing what a light source is and why the moon is not one. We then learnt how light travels in order for us to see and looked at how you could show this in a ray diagram. We drew our own and explained it in our books before using torches and card to explore light travelling in straight lines.

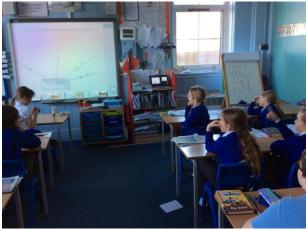


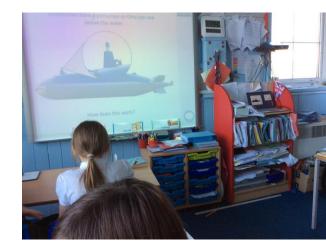
LO: I can use knowledge of how I see to explain how a periscope works In this lesson we recapped how we see and then thought about how it would work with a mirror. We then looked at a real life use for this in a submarine periscope. We looked at a ray diagram of this and then created our own periscopes.



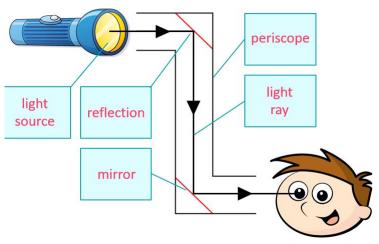
We could use our periscopes to spy on people.









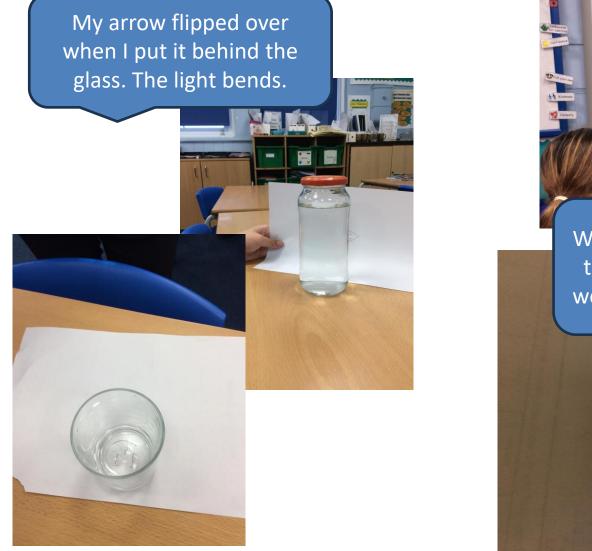


## LO: I know that because light travels in straight lines, a shadow will take the form of the object that casts it

We looked at what would happen if a light was shone at transparent, translucent and opaque objects. We then discussed what a shadow is. We recapped our work in Tamar and knew that the closer a shadow was to the light source, the bigger the shadow. We then experimented with shapes to make specific shadows.



LO: I can observe light phenomena In this lesson we looked at what happens when you shine light through water. We tried two different activities. Then we learnt what Sir Isaac Newton found out about white light and tried it out for ourselves.





When we shone the torch at the prism we made a rainbow.

Science FL	.E Y5/6 How	v does light enable us to see?		
Light Light				What I have learnt before: I have learnt about light and dark I have learnt how shadows change through the day
Forever Facts	Exciting Books	Subject Specific Vocabulary		
Light travels in straight lines		light source	anything that makes light, whether natural or artificial	
Objects are seen because they give out/ reflect light		reflect	throw back without absorbing it	
We see because light reflects from an object and into our eye	why does a 22 mirror show 2	straight line	a line traced by a point travelling in a constant direction	
Shadows have the same shape as the object blocking the light Skills	to front?	periscope	an apparatus using mirrors or prisms which allows you to see things that are otherwise out of sight	
I can make observations and conclusions	and other guestions about LIGHT	transparent	allows light to pass through so that objects can be distinctly seen	
I can answer questions based on my learning		opaque	not able	to be seen through
I can support my ideas with known facts	Our Endpoint	shadow	a dark a somethir	rea or shape produced by
I can use straight forward scientific evidence	I can explain how we see. I have			
I can identify scientific evidence used to support/refute ideas	experienced light phenomena to explore how we see	Personal Development The jobs it can be used in are: Optician, Staging, Film production. Children appreciate the awe and wonder of light in science		