

Knowledge Organiser Science – Year 6



Vocabulary	Our big question								
I must use and know: light light source prism	Remember this?	ARP wardens would ensure that blackout precautions were followed during the Blitz.		Submarines use periscopes to see what is around them.			Light can protect and endanger life.		
reflection shadow	As scientists, we will learn how to								
I should use and know: opaque refraction	to explain that	at light travels in straight lines objects are seen because reflect light into the eyes.	lines to e same sho and to p	travels			ain that we see things because light els from light sources to our eyes or light sources to objects and then to eyes.		
translucent transparent				Gl	Glossary				
I could use and know:	The Actual Image The E	What Our ye Eye Sees The Brain	ligi		A form of energy that travels in a wave from a source.	refracti	ion	This is when light bends as it passe from one medium to another. E.g Light bends when it moves from ai	
incident ray reflected ray the law of reflection				ht source lection	An object that makes its own light. Reflection is when light bounces off a surface, changing the direction of	ff visible spec	spectrum	into water. <mark>Light</mark> that is visible to the human eye. It is made up of a colour spectrum .	
visible spectrum		What We Actually See		ident ray	a ray of <mark>light</mark> . A ray of <mark>light</mark> that hits a surface.	prism	m	A prism is a solid 3D shape with flat sides. The two ends are an equal	
Priem reflecting light downwards Commanders Subling scales Bioleting Relescope Writeless mast			flected ray A ray of light that has bounced back after hitting a surface.				shape and size. A transparent prism separates out visible light into all the colours of the spectrum .		
	TARGET FOR TO	the	law of reflection	The law states that the angle of the incident ray is equal to the angle of		N	An area of darkness where <mark>light</mark> has been blocked.		
	+ + +	The law of The	angle of	angle of	the reflected ray.	transpa_	arent	Describes objects that let light travel through them easily, meaning you can see through the object.	
		states that the angle of incidence	tion is the e between the mal line and e reflected ra ght.			translu	ıcent	Describes objects that things let some light through, but scatters the light so we can't see through them properly.	
is domoged		angle of reflection.	he angle	of /	mal line	opaque	2	Describes objects that do not let any light pass through them.	
Heimsmon Heimsmon View through periscope	ARE YOU PREPA FOR THE BLACK	PED reflected from / in a surface, it obeus this / the	cidence is t gle betweer normal line the incident	ne // inci	dent ray incidence		E 1		