

YEAR 6

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
LIGHT PHYSICS	<p>The three Prime ELGs of Communication & Language, PSED and Physical Development provide the foundations of which all other learning is built upon.</p> <p>Specific: The Natural World ELG Explore the natural world around them, making observations Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p>			<p>Recognise that they need light in order to see things and that dark is the absence of light Notice that light is reflected from surfaces.</p> <p>Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by a solid object. Find patterns in the way that the size of shadows change.</p>			<p>Recognise that light appears to travel in straight lines Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.</p>

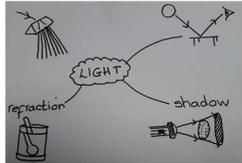
COMPOSITES

Recognise that light appears to travel in straight lines Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.

Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.

Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

COMPONENTS

COMPONENTS							
	1	2	3	4	5	6	End Point
	What is light?	How do we see all objects?	How do mirrors help us see?	What are shadows?	What is refraction?	How does light help us see colour?	Light is a source of energy What light is and sources of light How light travels How we see all objects How light affects shadows
CONCEPTS 	ENERGY	ENERGY	ENERGY	ENERGY	ENERGY	ENERGY	Understand how light travels. Understand what reflection and refraction is. Understand how shadows are created
SKILLS	Recognise that light appears to travel in straight lines	Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.	Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.	Recognise that light appears to travel in straight lines	Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	Light is a source of energy What light is and sources of light How light travels How we see all objects How light affects shadows
KNOWLEDGE Science Knowledge Organiser Light Year-6	Light appears to travel in a straight line	Light travels from a light source to our eyes	Mirrors reflect light from a light source, into our eyes.	Shadows are the same shape as the object which blocks the light	Light bends as it travels from one medium to another - refraction	As light travels through a transparent prism it separates out light into colours	Light is a source of energy Light travels in a straight line. Mirrors reflect light Shadows are created when objects block light.
LESSON LINK	Term 2 MTP	Term 2 MTP	Term 2 MTP	Term 2 MTP	Term 2 MTP	Term 2 MTP	
PROGRESSIVE VOCABULARY	light travel straight lines	light travel straight lines light sources eyes	light sources eyes reflect	light sources objects shadows	light travel straight lines refraction	transparent prism separates colours spectrum visible light	Articulate and recognise subject specific vocabulary

CURRICULUM EXPERIENCES			Using mirrors to reflect light around objects	Creating shadows in the playground	Looking at objects in water	Investigating prisms	Drawing conclusions from the investigations based upon how light behaves
END POINT	Light is a source of energy What light is and sources of light	How we see all objects	How light travels	How light affects shadows	How light travels	Light is a source of energy What light is and sources of light How we see all objects	How we see all objects

