



Natural processes can be influenced Knowledge Organiser

Lines of Inquiry: <ul style="list-style-type: none"> • Natural processes can be influenced (Why is it like it is?) • Transformation can be measured over time (How is it connected to other things?) • Discoveries allow for new understanding (Pick Herculaneum or Pompeii) (How do we know?) 	Year Group: 3	Main Foci: Science, Geography, DT
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What should I already know? <ul style="list-style-type: none"> • Close observation of materials, noticing that some let light through and other do not. • Observation and exploration of shadows. • Expressing their views of the local environment (Y1). • Making observations about features that give places their character (Y2). 	Vocabulary <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">light</td> <td style="padding: 2px;">A form of energy that travels in a wave from a source</td> </tr> <tr> <td style="padding: 2px;">light source</td> <td style="padding: 2px;">An object that makes its own light</td> </tr> <tr> <td style="padding: 2px;">dark</td> <td style="padding: 2px;">Dark is the absence of light</td> </tr> <tr> <td style="padding: 2px;">reflection</td> <td style="padding: 2px;">The process where light hits the surface of an object and bounces back into our eyes.</td> </tr> </table>	light	A form of energy that travels in a wave from a source	light source	An object that makes its own light	dark	Dark is the absence of light	reflection	The process where light hits the surface of an object and bounces back into our eyes.
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What should I know by the end of the unit?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">reflective</td> <td style="padding: 2px;">A word to describe something which reflects light well.</td> </tr> <tr> <td style="padding: 2px;">opaque</td> <td style="padding: 2px;">Describes objects that do not let any light pass through them.</td> </tr> <tr> <td style="padding: 2px;">shadow</td> <td style="padding: 2px;">An area of darkness where light has been blocked.</td> </tr> <tr> <td style="padding: 2px;">translucent</td> <td style="padding: 2px;">Describes objects that let some light through, but scatter the light so we can't see through them properly.</td> </tr> <tr> <td style="padding: 2px;">transparent</td> <td style="padding: 2px;">Describes objects that let light travel through them easily, meaning that you can see through the object.</td> </tr> </table>	reflective	A word to describe something which reflects light well.	opaque	Describes objects that do not let any light pass through them.	shadow	An area of darkness where light has been blocked.	translucent	Describes objects that let some light through, but scatter the light so we can't see through them properly.	transparent	Describes objects that let light travel through them easily, meaning that you can see through the object.
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erupt	To suddenly burst out causing lava to explode out of the earth's surface.	Explore: physical geography, including: climate zones, volcanoes and earthquakes. Describe and understand the key aspects of volcanoes and earthquakes DT Design and make high-quality prototypes and products using a repertoire of knowledge, understanding and skills.
fossils	The remains of plants or animals that lived a long time ago which can be found deep in the earth.	
magma	Extremely hot, liquid rock.	
tectonic plates	The earth's crust is made up of large areas called tectonic plates that join together.	

Key knowledge

Mirrors **reflect light** very well, so they create a clear image. An image in a mirror appears to be reversed. For example, if you look in a mirror and raise your right hand, the mirror image appears to raise its left hand.

The **light** is **reflected** from the object.

Light from the torch hits the object.

Dates for your diaries			
PE	Every Monday	Pantomime	Friday 13 th December
Swimming	Begins Thursday 26 th September for ten weeks	KS2 Nativity	Monday 16 th and Tuesday 17 th December
French	Every Friday morning with Mr Sage	End of term 2	Friday 20 th December
Parents' Consultations	Monday 18 th November 12.30-3.30, 3.40-4.00 Tuesday 19 th November 3.40- 4.30	Start of Spring Term/ INSET	Monday 6 th January
School photos	Thursday 28 th November		