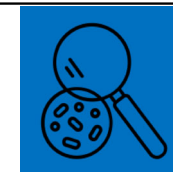


Objectives and Sticky Knowledge

Previous Knowledge Recap:
Any own knowledge of light.



Land Objectives and Sticky Knowledge:

To know how light is formed.	To know about the pros and cons of sunlight.	To know how a shadow is formed.
<ul style="list-style-type: none"> *Know that dark is the absence of light *Know that light is needed in order to see and is reflected from a surface *Know and demonstrate how a shadow is formed and explain how a shadow changes shape 	<ul style="list-style-type: none"> *Know about the danger of direct sunlight *describe how to keep protected *To know that sun provides us with Vitamin D 	<ul style="list-style-type: none"> *Explain how light travels. *Sort different materials according to whether they are opaque, transparent or translucent. *Use these materials in an investigation into different shadows.

Links with 'Communication' Golden Thread:

Links with CST and CKA Values Crown:

Year 3 Knowledge Science – Light



Key Vocabulary	
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.
reflect	To bounce off.
reflective	A word to describe something which reflects light well.
ray	Waves of light are called light rays . They can also be called beams.

Key Knowledge

We need **light** to be able to see things. **Light** travels in a straight line. When **light** hits an object, it is **reflected** (bounces off). If the **reflected light** hits our eyes, we can see the object. Some surfaces and materials **reflect light** well. Other materials do not **reflect light** well. **Reflective** surfaces and materials can be very useful...

hi-vis jacket

cat's eyes

Key Vocabulary	
pupil	The black part of the eye which lets light in.
retina	A layer at the very back of the eye. The retina takes the light the eye receives. It then changes it into nerve signals to send to the brain.
shadow	An area of darkness where light has been blocked.
opaque	Describes objects that do not let any light pass through them.
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.

Sky Objectives:

Ask relevant questions relating to a range of scientific enquiries.
 Conduct a fair test and explain what happens.
 Begin to notice patterns and trends in results and explain the potential causes.

