

Light

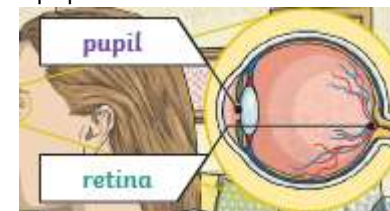
Class 3 and 4

Key Vocabulary – New for Year 3

Light Waves	A form of energy that travels in a wave from a source.	Reflective	A word to describe something which reflects light well.	Shadow	An area of darkness where light has been blocked.
Light source	An object that makes its own light.	Ray	Waves of light are called light rays. They can also be called beams.	Opaque	Describes objects that do not let any light pass through them.
Dark	The absence of light.	Pupil	The black part of the eye which lets light in.	Translucent	Describes objects that let some light through but scatter the light so that we don't see it properly.
Reflect	To bounce off.				
Reflection	The process where light hits the surface of an object and bounces back into our eyes.	Retina	A layer at the very back of the eye. The retina take the light the eye receives. It then changes it into nerve signals to send to the brain.	Transparent	Describes an object that let light travel through them easily, meaning that you can see through the object.

Key Knowledge

What is light and why do we need it?	We need 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.	What are the different materials and their properties when investigating light? <ul style="list-style-type: none"> - Opaque - Translucent - Transparent 	How do we see? What are the parts of the human eye? The pupils control the amount of light entering the eyes. If too much light enters, it can damage the retina.
What is reflection?	Some materials reflect light well and these surfaces and materials can be very useful e.g. cat's eyes, hi-vis jackets. Mirrors reflect light well, so they create a clear image. An image in a mirror appears to be reversed.		
What is a shadow?	A shadow is caused when light is blocked by an opaque object. A shadow is larger when an object is closer to the light source. This is because it blocks more of the light.		



Prior Learning

Children will explore how things work.

Next Steps

Children will learn about the human eye, shadows, refraction and the laws of reflection