

Year 3 Light

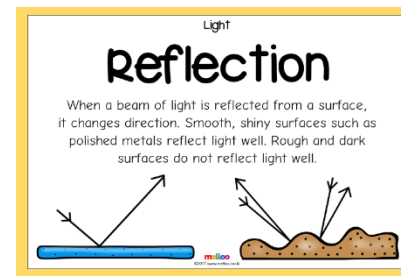
Key Vocabulary	
Light	A form of energy that travels in a wave from a source.
Light source	An object that makes its own light (eg the sun, a torch).
Dark	Is the absence of light.
Reflection	The process where light hits the surface of an object and bounces back into our eyes.
Reflect	To bounce off.
Reflective	Used to describe something which reflects light well.
Ray	Waves of light are called light rays.
Pupil???	The black part of the eye which lets light in. Need Know at Y3??
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. NEED TO KNOW???
Shadow	An area of darkness where the light has been blocked.
Opaque	Describes objects that do not let any light pass through them.
Translucent	Describes objects that let some light through.
Transparent	Describes objects that let light travel through them easily, meaning that you can see through the object.

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. Mirrors reflect light well so they create a clear image.

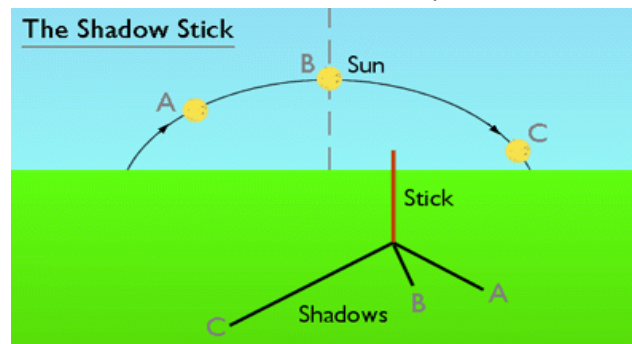


The light from the light source (in this case a torch) hits the object. The light is reflected from the object to a person's eyes.

Smooth, shiny and flat surfaces reflect light the best. Rough and uneven surfaces do not reflect light well.



Shadows at different times of the day



Shadows

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 light.

Size of shadows

