

Can we see and hear energy? What is the dark? (Year 3)

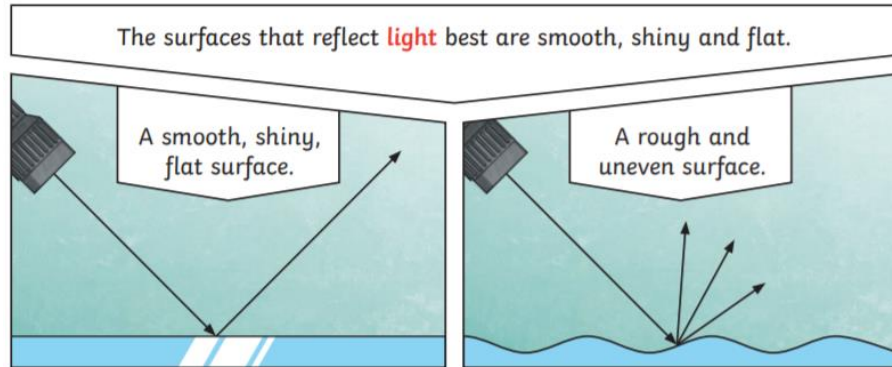
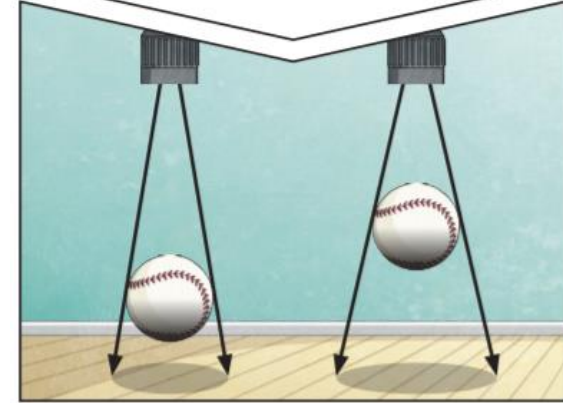
In order to see, we need light from a light source.



Light travels in straight lines. When it hits something, it can bounce off it. This is called **reflection**.



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**.



The Sun is very dangerous and should never be looked at directly.




Why does the dark seem scary? Should it be?

Key vocabulary	
Transparent	An object that lets light pass through it.
Translucent	An object that lets some light through but scatters the rest.
Opaque	An object that doesn't let any light through.

Key vocabulary	
Light	A form of energy that travels in a wave from a source.
Light source	An object that makes light.
Dark	The absence of light.
Reflect	To bounce off
Reflection	When light bounces off an object and into our eyes.
Ray	Waves of light are called light rays.
Shadow	An area of darkness where light has been blocked.



Prior Learning (EYFS)	Local links	Unit Objectives
<p>Development Matters</p> <ul style="list-style-type: none">Observe and interact with natural processes, such as light travelling through transparent material and an object casting a shadow	<p>Glass production in St Helens (Ravenhead, Pilkingtons etc.)</p> <p>How did ancient cultures in Merseyside create and use mirrors?</p> <p>Are there any sun dials around St Helens?</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none">recognise that they need light in order to see things and that dark is the absence of lightnotice that light is reflected from surfacesrecognise that light from the sun can be dangerous and that there are ways to protect their eyesrecognise that shadows are formed when the light from a light source is blocked by an opaque objectfind patterns in the way that the size of shadows change.
		<p>Where next? How do we hear different sounds? (Year 4)</p> 