

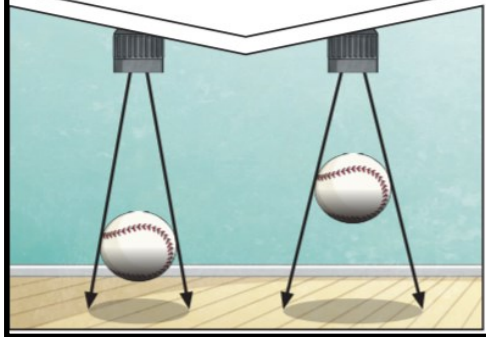


Topic: Light

Spring 2 Year 3

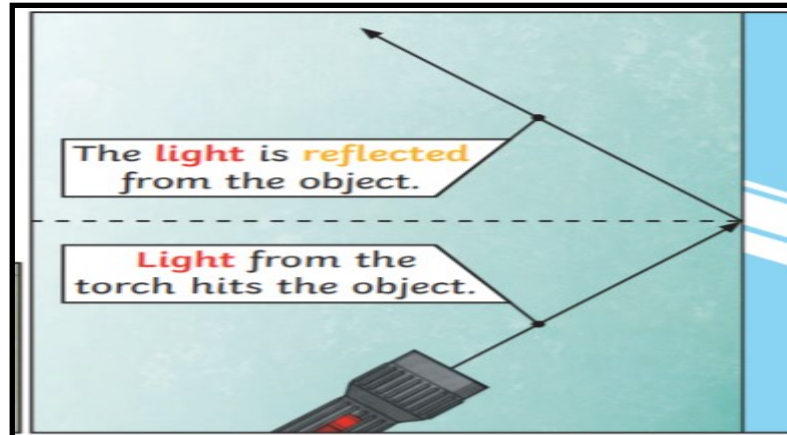
What is a shadow?

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**.



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 objects.

Some surfaces and materials reflect light well. Other materials do not reflect light well

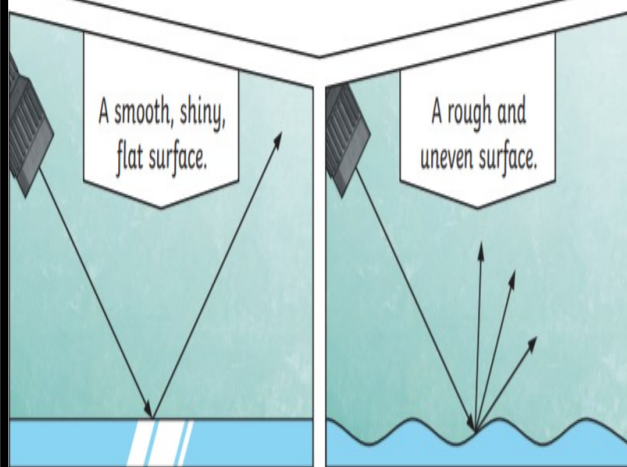


Vocabulary you will know...



light	A form of energy that travels in a wave from a light source.
light source	An object that makes its own light,
dark	The absence of light.
reflection	The process where light hits the surface of an object and bounces into our eyes.
shadow	An area of darkness where light has been blocked.
opaque	Objects that do not let any light pass through them
translucent	Objects that let some light through but scatter the light source so you can't see through them properly.
transparent	Objects that let light travel through them easily, meaning you can see through the object.

The surfaces that reflect **light** best are smooth, shiny and flat.



When the **light** source is directly above the object, the **shadow** will be directly underneath.



midday

When a **light** source is to one side of an object, the **shadow** will appear on the opposite side. The **shadow** will also be longer.



sunset

Enquiry and Skills

	<b>Fair Test</b> How does the distance between the object
	How does my shadow change over time?
	<b>Comparative Test</b> Which pair of sunglasses will be the best