

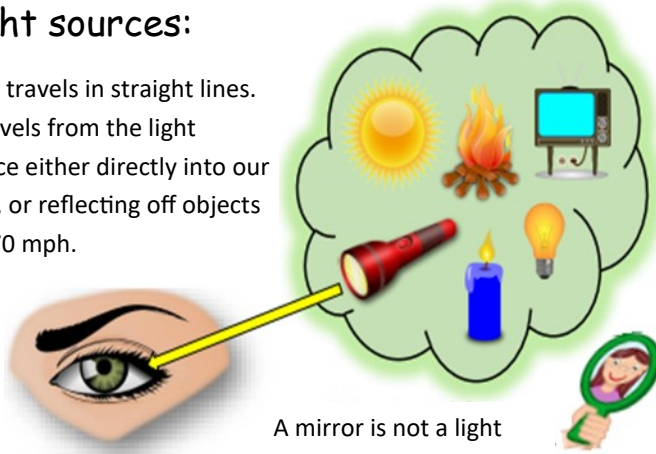
Year 3:

Light

Key Learning

Light sources:

Light travels in straight lines. It travels from the light source either directly into our eyes, or reflecting off objects at 670 mph.



A mirror is not a light source. It reflects light but does not create it.

Rainbows are formed when the sun shines through water particles, which are transparent. When white light passes through, it 'bends' and splits into the range of colours which make white light



LARGE SHADOW
when the toy is close to the light

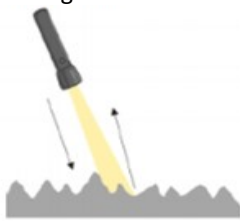
SMALLER SHADOW
when the toy is further from the light

TINY SHADOW
when the toy is a long way from the light

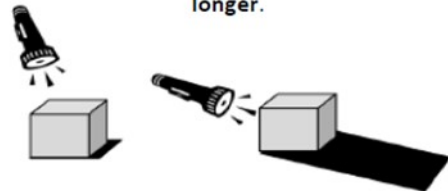
Light travelling and reflecting from a smooth surface.



Light travelling and reflecting from a rough surface.



As the **light source** moves **higher** in relation to the **object**, the **shadow** gets **shorter**. As the **light source** moves **lower**, the **shadow** gets **longer**.



UV rays from sunlight can be harmful which is why you must protect yourself appropriately with sunglasses and sun screen.



Key Vocabulary

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 clearly.
Transparent	Describes objects that let light travel through them easily, meaning you can see through the object.
Light source	An object that can emit (make) its own light e.g. the sun or a torch.
Reflect	To bounce off.
Reflection	The process where light hits the surface of an object and bounces back into our eyes.
Shadow	An area of darkness where light has been blocked.
Dim	Something that does not shine brightly or give out a lot of light.