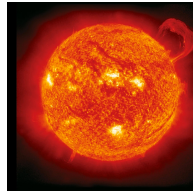


## How can the sun be harmful to people?

The sun is our biggest light source. Sunlight is so powerful that it can damage people's eyes as well as their skin.

To protect our skin we must wear sunscreen. To avoid burning our eyes we must never look at the sun.



# Year Three Science Light and Seeing



## What is a light source?

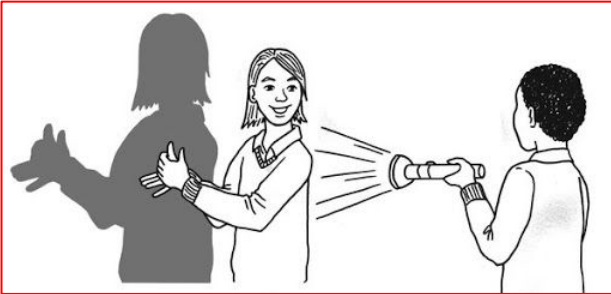
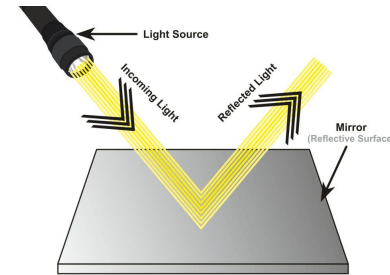
Objects that emit light are called light sources. The sun, stars and lamps are all light sources.

The moon is not a light source - it reflects light from the sun.

## How does reflected light help us see?

Reflected light allows us to see the world around us.

You only see something because light bounces off it and into your eyes.



## How can you change the size of a shadow?

A shadow is formed when an opaque object blocks the light.

If the opaque object is moved close to a light source then the size of the shadow will be bigger. When the object is moved further away, the shadow will be smaller.



## Significant person: Patricia Bath

(1942-2019) was a surgeon who helped restore the sight of blind people. She operated on people's eyes in a safe way so that they could see again.

## Significant person: Yayoi Kusama

(born 1929) is a Japanese artist. Her work called 'Infinity' was made in 2012 and displayed at the Tate Modern. The mirrors have endless reflections and the art became very popular, making her famous across the world.



## Key vocabulary

<b>light</b>	We need light so see. Some light is very bright and some is dim
<b>source</b>	The place where something begins. Light comes from lots of different sources. The sun, a torch and candles are all sources of light.
<b>emit</b>	To give out. The sun emits light.
<b>nocturnal</b>	Active during the night
<b>shadow</b>	When an opaque object blocks the light a shadow is formed
<b>opaque</b>	Light cannot travel through opaque material - we can't see through it
<b>transparent</b>	Light passes through transparent materials - we <b>can</b> see through them.
<b>reflect</b>	When light bounces off a surface.  The moon is not a light source. We can see it because the sun's light reflects off it.
<b>translucent</b>	Will allow light to pass through but objects on the other side will not be clearly seen.