



Key knowledge:

Light sources	
What is light?	A way of seeing our surroundings when it is dark.
What is darkness?	The absence of light when the area surrounding you is difficult to see.
What is a light source?	A light source is something that makes its own light.
Common light sources	<ul style="list-style-type: none"> The Sun The stars Flames Electric lights Some animals e.g. fireflies and glow worms
Reflection	<p>Light bounces off some materials better than others.</p> <p>Shiny objects reflect light well.</p> <p>The Moon, a mirror and shiny objects reflect light from a separate light source.</p> <p>They are not a light source themselves.</p>

The sun

WARNING: It is not safe to look directly at the sun, even when wearing sun glasses.

Ways to keep our eyes protected from sunlight

- Sun glasses
- Sun hat
- Umbrella
- Tinted lenses
- Sun visor

Light

Light travels in straight lines.

Light travels very, very fast - 186,282 miles per second (that's like travelling around the world over 7 times in a second).

If something gets in the way of light, a shadow is formed.

Key vocabulary:

Tinted	When glass is a darker colour to dull down the brightness of the sun
Opaque	An object you are not able to see through
Reflection	When light bounces off a surface

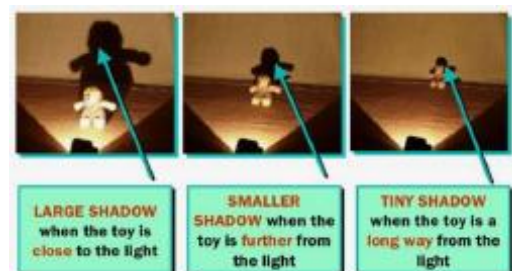
Diagrams:

When a light source is blocked by an opaque object, a shadow is formed



If an object is moved closer to the light sources, the shadow gets bigger

If an object is moved further away from the light source, the shadow gets smaller



Possible experiences:

Experiment to find out how the length of shadows can change with the seasons. (Caused by the earth's tilt).

Shadow puppets theatres with size of shadow changes for bigger characters.

Key concepts:

Recognising

Finding patterns

Noticing