

Key knowledge

To recognise that they need light in order to see things, and that dark is the absence of light.

To be able to name three different light sources

To know that shadows are formed when the light from a light source is blocked by an opaque object.

What is light?

Light is a type of energy that lets us see things



If there is no light then it is dark and we cannot see anything



Reflections

Shiny surfaces reflect light




Matt surfaces don't reflect light very well





Key Vocabulary	
absorb	Take in or soak up
dark	The absence of light
energy	A supply of power. The ability to do work
light	A type of energy. We can see objects because our eyes can sense light
light source	Where light comes from, eg a candle, the Sun
mirror	A shiny surface that reflects light in a regular way
opaque	Not clear. Blocks light so that none gets through
reflect	To throw back or bounce light from a surface
shadow	a dark shape or outline of something that is made when light is blocked
transparent	clear, see-through, lets light pass through
translucent	Almost see through, lets some light through

Sunlight




The light from the sun can be dangerous. It can damage our eyes. We must never look directly at the sun. We can protect our eyes by wearing sunglasses or sunhats in bright sunlight.

Shadows



An opaque object blocks the light from getting through. A dark shape or outline is formed. This is a shadow



We can change the size of the shadow by changing the position of the:

- light source
- object
- surface where the shadow is being made

Quiz

<u>Question</u>	<u>a.</u>	<u>b.</u>	<u>c.</u>	<u>d.</u>
Where does Earth get it's daylight from?	From millions of light bulbs	The moon	The sun	The stars
What is it called when a ray of light hits an object and bounces off the surface?	Absorption	Integration	Reflection	Bouncing light
If a window lets no light through, what is the best way to describe the characteristics of the window?	Opaque	Black	Dark	Closed
When an object blocks the path of light, what is formed?	A shadow	A reflection	A fog	A problem
When an object moves closer to a light source, it's shadow ...	Gets smaller	Gets bigger	Changes shape	Stays the same size