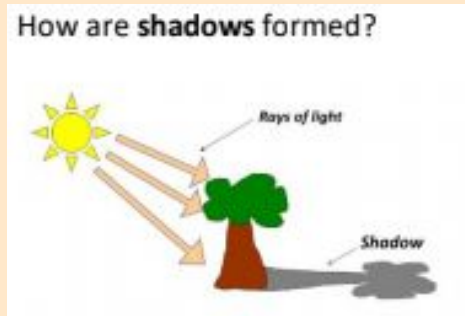


Key Knowledge

<p>Eyes Our eyes can see objects because we can sense light</p>	<p>Light and dark Dark is no light so we can't see and light is when there is light so we can see</p>
<p>The Sun Light from the sun can damage our eyes and skin so we can wear hats and sunglasses to protect them</p>	<p>Shadows These are formed on a surface when something blocks or gets in the way of the light</p>
<p>Small shadows These happen when the object blocking the light is further away from the source</p>	<p>Big shadows These happen when the object blocking the light is closer to the light source</p>

Key Diagrams



Light travels in straight lines



Key Vocabulary

absence of light	When there is no light so it is dark
dark	When there is no light available
light	A brightness which helps you to see things
light source	Things which give us light such as the sun, light bulbs and candles
mirror	A glass surface which reflects an image
mat	Something that isn't shiny
opaque	Something that doesn't let light through it
reflect	When light is sent back from a surface because it doesn't pass through it
shadow	A dark shape on a surface made by something blocking the light
shiny	A surface which reflects light because it is clean or polished
sunlight	The light that comes from the sun
surface	The top of an object or thing
translucent	Something which lets some light through
transparent	Something which lets lots of light through

Important Scientists

<p>Ibn Al-Haytham He was an Arabic scientist who proved that light travels in straight lines</p>	965 - 1040
<p>Zhang Heng He was a Chinese scientist who recognised that the Moon is not a source of light and that it reflects the sun</p>	78 - 139

Investigate

Explore how shadows vary as the distance between a light source and an object or surface is changed.	Explore shadows which are connected to and disconnected from the object e.g. shadows of clouds and children in the playground.
Choose suitable materials to make shadow puppets.	Create artwork using shadows
Explore how different objects are more or less visible in different levels of lighting	Explore how objects with different surfaces, e.g. shiny vs matt, are more or less visible.