



# KEY INFORMATION AND FACTS

## KEY VOCABULARY

<b>light source</b>	A natural or artificial source of light.
<b>straight lines</b>	Light travels in straight lines.
<b>light ray</b>	Each line of light travelling in a straight line from its place of origin.
<b>reflect</b>	To throw back light from a surface.
<b>shadow</b>	A dark area created where light from a light source is blocked by an object. The object blocking the light will be opaque or translucent. The shadow will be the same shape as the object blocking the light.
<b>angle</b>	The angle at which light hits a reflecting surface is called the angle of incidence, and the angle at which light bounces off a reflecting surface is called the angle of reflection

Significant scientists	
<p><b>Abu Ali al-Hasan (Alhazen) (965-1040)</b></p> 	<p>Alhazan was an Iranian mathematician, astronomer and physicist. He was the pioneer of modern optics. He carried out experiments with pinhole cameras and candles and explained how the image is formed by rays of light travelling in straight lines.</p>
<p><b>Ben Jensen</b></p> 	<p>Ben Jensen is an inventor at Surrey NanoSystems Ltd and developed Vantablack, a super-black coating that holds the world record as the darkest human-made substance.</p>

