

Year 6 Science Knowledge Organiser

Term: Autumn 1

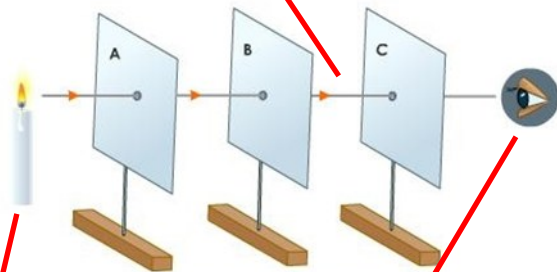
Light

Key vocabulary

light ray	Each line of light travelling in a straight line from its place of origin.
light source	A natural or artificial source of light.
reflect	To throw back light from a surface.
shadow	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.
straight lines	Light travels in straight lines.

Light travels in a straight line:

We can use an arrow to represent the path of the light.



Light source

We see light from the light source when it enters our eyes.

Significant scientists

Abu Ali al-Hasan (Alhazan) (965-1040)



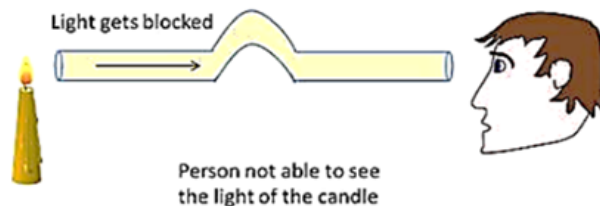
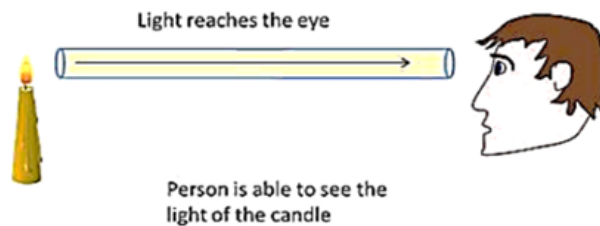
Alhazan was an Iranian mathematician, astronomer and physicist. He was the pioneer of modern optics. He carried out experiments with pinhole cameras and candles and explained how the image is formed by rays of light travelling in straight lines.

Ben Jensen

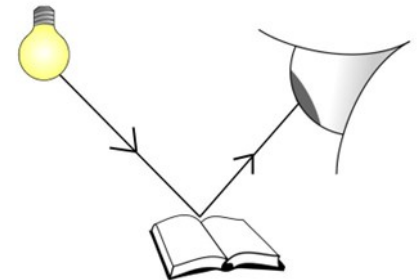


Ben Jensen is an inventor at Surrey NanoSystems Ltd and developed Vantablack, a super-black coating that holds the world record as the darkest human-made substance.

Light may come directly from a light source:



For objects that are not a light source, light must be reflected from the object into our eye for us to see the object:



Shadows have the same shape as the objects that cast them:

