

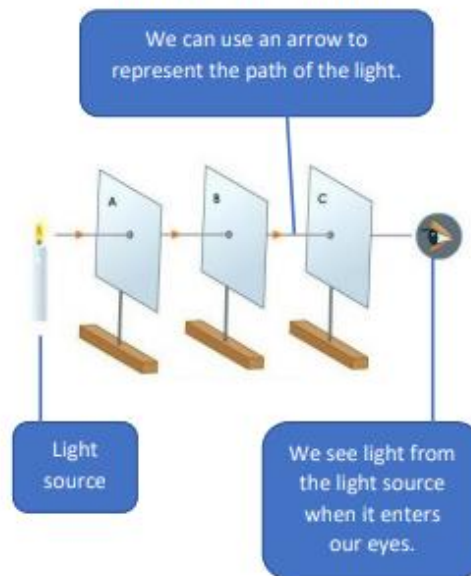


Year 6 Science Knowledge Organiser Topic- Light Unit- Physics

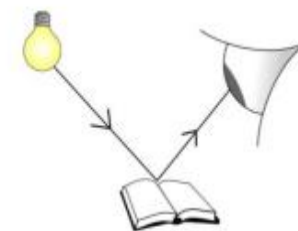
Key Vocabulary

light source	A natural or artificial source of light.
straight lines	Light travels in straight lines
light ray	Each line of light travelling in a straight line from its place of origin.
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.
refraction	Light bends when it passes from one medium to another eg light moves from air into water
transparent	objects that let travel through them – you can see through it
translucent	objects that let some light through, but scatters the light so we can't see it properly
opaque	objects that do not let any light through

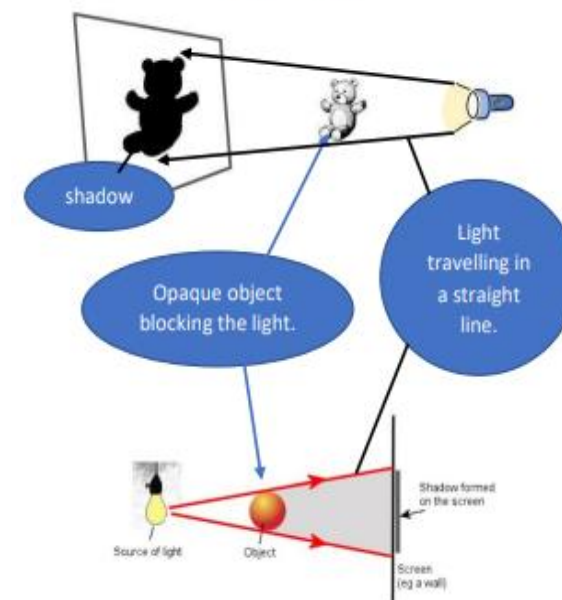
Light travels in a straight line:



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:



Significant scientists

Abu Ali al-Hasan (Alhazen) (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.