



Year 6 Knowledge Organiser - How can you see around a corner?

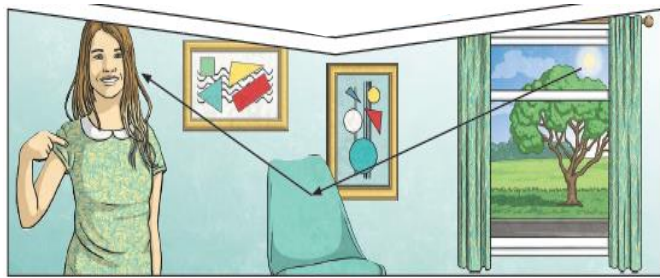
Key Vocabulary

Light 	Light is a form of energy that travels in waves like sound.	Shadow	A shadow is the dark shape made when something blocks light from a light source like the sun, a flashlight, or campfire.
Light Source	Light comes from different sources called light sources .	Transparent	If an object or material is transparent , it means light completely passes through it and you can see clearly through it.
Light Rays	Normally, light travels in a straight path called a ray .	Opaque	Something that is opaque cannot be seen through and does not allow light to pass through it.
Reflection	When light from an object is reflected by a surface, it changes direction.	Periscope	A periscope helps people see from a hidden place. It has a tube with two mirrors inside which reflect the light.
Prism	When white light travels through a prism . You can see that light is made up of different coloured light.	Spectrum	A spectrum shows colours: red, orange, yellow, green, blue, indigo, and violet. You can see it when sunlight goes through a prism onto a white screen.

How do we see things?

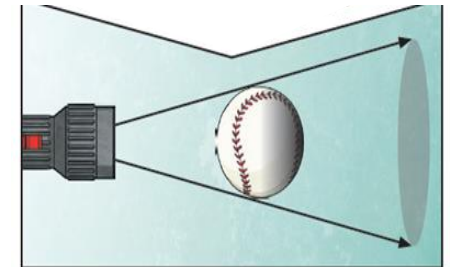
We need light to be able to see things. Light waves travel from sources of light in straight lines. These lines are often called rays or beams of light.

Light from the sun travels in a straight line and hits the chair. The light ray is then reflected off the chair and travels in a straight line to the girl's eye, enabling her to see the chair.

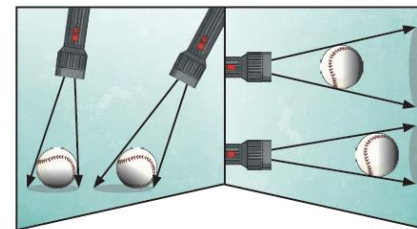


What shape are shadows?

A shadow is always the same shape as the object that casts it. This is because when an opaque object is in the path of light travelling from a light source, it will block the light rays that hit it, while the rest of the light can continue travelling.



Shadows can also be elongated or shortened depending on the angle of the light source. A shadow is also larger when the object is closer to the light source. This is because it blocks more of the light.



Useful Weblinks

<https://www.bbc.co.uk/bitesize/topics/z3nnb9q>

<https://www.bbc.co.uk/bitesize/articles/zp23r82>

<https://www.theschoolrun.com/what-is-light>

