

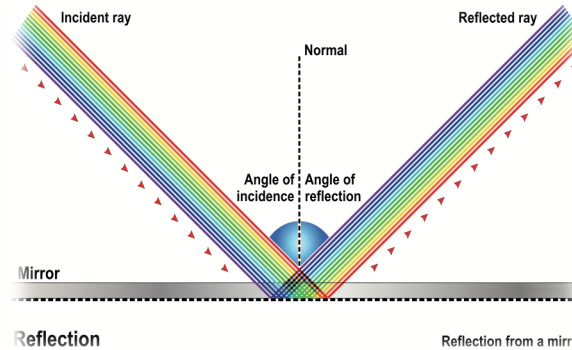


## ROCKET WORDS

Learn these words  
and their definitions.

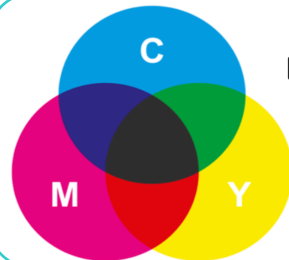
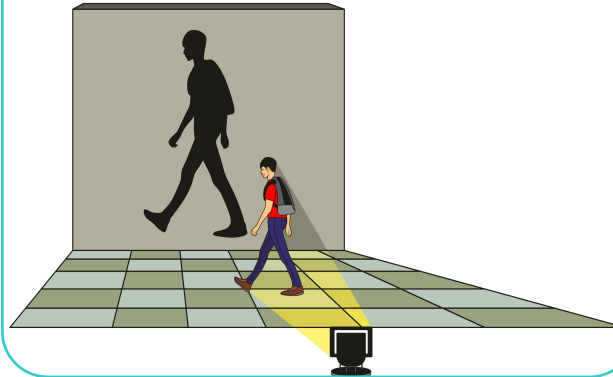
Key Word	Definition
transparent	An object or material that allows light to pass through easily.
opaque	An object or material which doesn't allow light through.
translucent	An object or material which allows some light to pass and scatters light rays.
magnify	To make an image larger.
angle of incidence	The angle made by a light ray as it strikes a mirror.
angle of reflection	The angle made by a light ray as it reflects off a mirror.
lens	A transparent material which changes the direction of movement of light.
refraction	The action of distorting an image by viewing through a medium.

### Angles of Incidence and Reflection



### How a shadow forms

Shadow is a dark area formed when an object blocks light from the light source



Light filters can be  
used to mix or  
change the colour  
of the light.

### FACTOIDS:

Can you find out more?

Q1. How does a lens work?

A1. They bend rays of light  
as they pass through so  
they can change path or  
direction.

Q2. What colours is light  
made up from?

Light is made up of all the  
colours of the spectrum /  
rainbow. The colour of the  
light you see depends on its  
wavelength.

Q3. How does a telescope  
work?

They have two lenses (one  
large and one small) which  
reflect light rather than  
bending it.

### Unit: Light

This unit will help you understand how light travels, as well as exploring how the path and colour of light can change. A key focus is lenses, and how lenses in our eye, in cameras and in can change the way we view an object.

It is important to think about how lenses are used in research and industry, which is why many of the activities in this unit will help you build your own lenses or observe objects through a lens. We take light for granted, but it is amazing how it moves, reflects and change .



### Lesson Sequence



Compare materials of different  
transparencies



Explain how light travels in a  
straight line and shadows are  
formed



Describe how lenses can be  
used



Show white light is a mixture



Explain how water can bend  
light



Investigate light colour mixing

