

Space does not have any light. If our Earth didn't have an atmosphere, the sky would be **BLACK** like outer space. We would be able to see stars in our daytime like an astronaut sees stars in space.

Glossary

Absorption - when light stops at the object and does not reflect or refract e.g. wood *Incident ray -* a ray of light that hits a surface **Light** - a type of energy that enables us to see **Light source** - an object that produces light Opaque - describes objects that do not let any light pass through them **Periscope** - a tube with mirrors which enables you to see around corners **Reflected ray -** a ray of light thats has bounced back after hitting a surface **Refract** - to change the course of light passing from one medium to another **Shadow** - an area of darkness where light has been blocked **Spectrum** - range of colours that can be found in a rainbow or when white light is split up **Transparent** - describes objects that let light travel through them **Translucent** - describes objects that let some light through them

Unlike waves of water or sound, light does NOT

need a medium to travel through. This means that light can travel through a vacuum.

When

light from an

object is reflected by a

surface, it changes

direction. It bounces off

the surface at the same

angle as it hits it.

This is called the

law of reflection.

We **NEED**

light to see things. Light waves travel out from a source of light

-S-T-R-A-I-G-H-T-

lines.

Year Six Light



Light from the sun

can be **dangerous**

As light travels faster than sound, you see lightening before you hear thunder.

The speed of light equals 300,000km per second!

and it is important to protect the eyes.

The light ray is then reflected off of the flowers and travels in a straight line to the eye.

water looks like it is

when it moves from air

to water. It is called

REFRACTION.

Light b e

Objects are seen because they give out or reflect light into the eye.

Light from the sun travels in a straight line and hits the flowers.

Shadows

are always the same shape as the object that cast them.

This enables the girl to see the flowers.

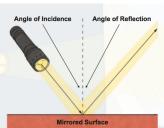
When an object blocks the athway of bright light, a shadow is formed.

A shadow can be elongated or shortened depending on the angle of the light source.



Mirror

The angle of incidence is **ALWAYS** equal to the angle of reflection.



Light -Mirror

Isaac Newton shone a light through a transparent prism, separating out light into the

colours of the rainbow

- the colours of the SPECTRUM







All the colours together merge and make make visible white light.