

Vocabulary

light	A form of energy that travels in a wave from a source.
light source	An object that makes its own light .
reflection	Reflection is when light bounces off a surface, changing the direction of a ray of light .
incident ray	A ray of light that hits a surface.
reflected ray	A ray of light that has bounced back after hitting a surface.
the law of reflection	The law states that the angle of the incident ray is equal to the angle of the reflected ray .
refraction	This is when light bends as it passes from one medium to another. E.g. Light bends when it moves from air into water.
visible spectrum	Light that is visible to the human eye. It is made up of a colour.
prism	A prism is a solid 3D shape with flat sides. The two ends are an equal shape and size. A transparent prism separates out visible light into all the colours of the spectrum .
shadow	An area of darkness where light has been blocked.
transparent	Describes objects that let light travel through them easily, meaning you can see through the object.
translucent	Describes objects that let some light through, but scatters the light so we can't see through them properly.
opaque	Describes objects that do not let any light pass through them.

Light | Class 4

Facts about light

The moon reflects the sun's light it does not give off light on its own

Light travels in straight lines

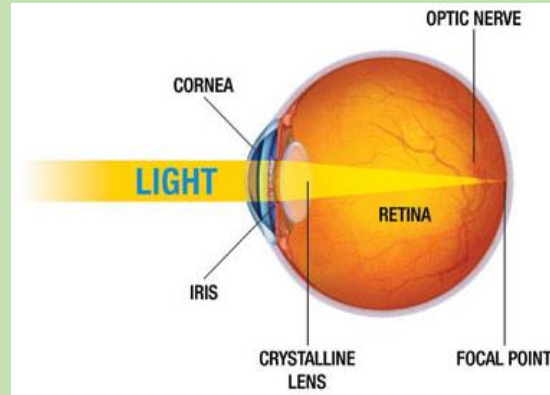
Light travels faster than sound

Natural Light

Sun
Fire
Fireflies
Lightning

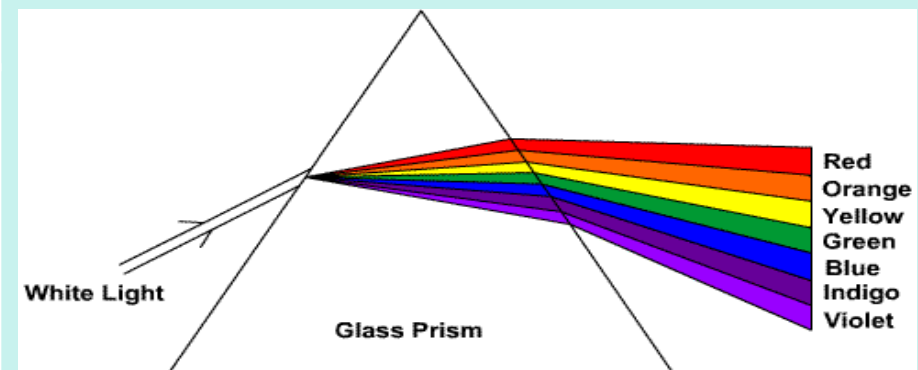
Man-made Light

Light bulb
Television
Neon sign
LED (Light-emitting diode)



Structure of the human eye.

Spectrum of Colour



White light is made up of many different coloured lights. When it is split through a prism (or in a rainbow) you can see the different colours in the sequence above. The mnemonic 'Richard of York Gave Battle In Vain' helps us to recall this. These are the same colours you see in a rainbow. You can see rainbows when it is raining and sunny at the same time. The water droplets in the air split the light from the sun into the spectrum of colours.