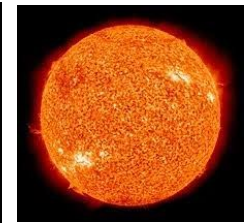
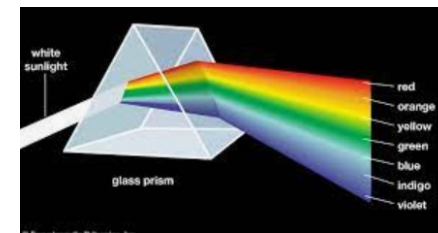


Did you know?

If you travelled at the speed of light you could go around the whole world seven and half times in just one second! Whoosh!

Light and Shadows

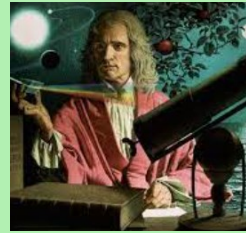
Year 3 Spring Term 1



Key Vocabulary

light		A form of energy that is created by stars and other sources and travels in waves through space.
shadows and darkness		Shadows are made when solid objects block light, or a light source is switched off. Darkness is the absence of light.
light source		Light sources are either natural or human made, such as stars and lightening, or torches and screens.
opaque		Something is opaque if light does not pass through it.
translucent		Something is translucent if some light can pass through it.
transparent		Something that is transparent allows light to travel through it without difficulty, like a clear window or pair of glasses.
mirrors		Mirrors are opaque objects that reflect light in particular way.
reflection		When light waves bounce off a very smooth surface, light is reflected, or bounced back into the atmosphere.
absorption		All solid objects absorb some light. That means some light is reflected, but some of the light waves are absorbed, or held back by the object.

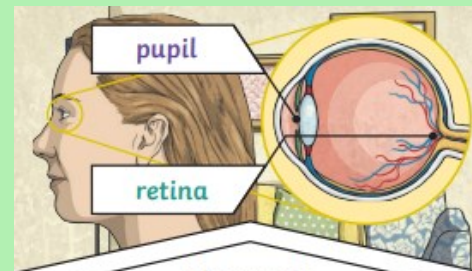
Significant people



Isaac Newton (1643-1747) was the first person to understand that white light can be split into all the colours of the rainbow. He split light by using a glass prism.



Albert Einstein (1879-1955) realized light is the fastest thing in the universe. He even work out how fast light can travel. He also calculated how the speed of light effects space and time

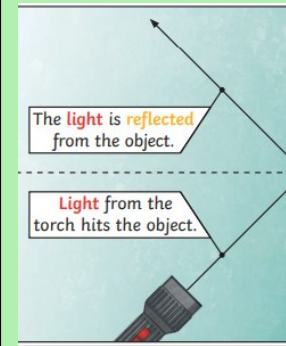


The pupils control the amount of light entering the eyes. If too much light enters, then it can damage the retina. To help protect the eyes, you can wear a hat with a wide brim and sunglasses with a UV rating.

The light we see with our eyes is a small part of the electromagnetic spectrum. Our eyes and brain see the light waves that bounce off objects as different colours of the rainbow. Colour is a trick of your brain and only exists in your head!

Reflection

When light waves hit a reflective surface they always bounce off at the same angle!



Did you know?



Light travels so fast it only takes 8 minutes to travel from the sun to the Earth, a distance of 147.35 million miles! The light outside your window is always 8 minutes old!

"Imagination circles the world" Albert Einstein

Significant People

Community

Equality & Justice

Environmental Responsibility

Who were the key figures that shaped the

How has this historical period affected our local

How were different groups of people treated

What legacy did this period leave behind and