

Light is form of energy that can be passed from one object to another across space.



Vocabulary

Sources of light	Objects that give off light (e.g. light bulbs, flames, the Sun)
Luminous	A word that means gives off light
Darkness	A place that is lacking light
Light meter	An instrument that measures the amount of light in given place
Lux	A measurement of amount of light
Transparent	An object that allows all light to pass through it
Translucent	An object that allows some light to pass through it
Opaque	An object that allows no light to pass through it

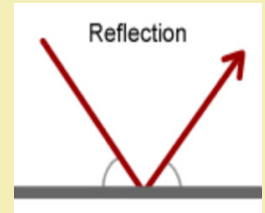
Reflection

Reflection takes place when light bounces off an object

Uses: as a mirror, to look behind yourself, in a periscope

Specular reflection - when all light reflects in the same direction

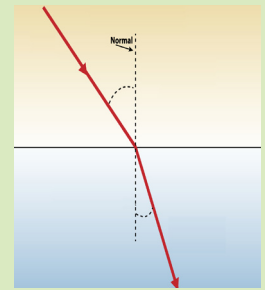
Diffuse reflection - when all light reflects off an object in many different directions



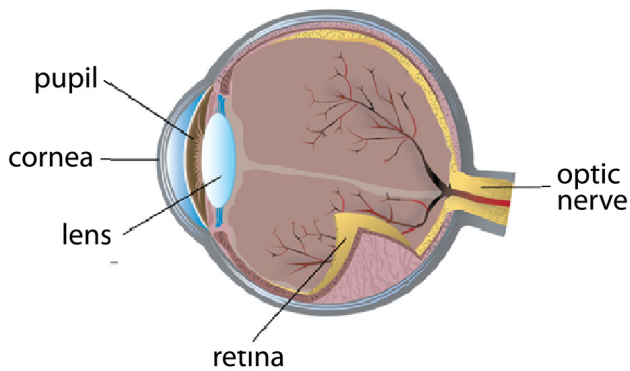
Refraction

Refraction takes place when light changes direction when it moves from one transparent material to another

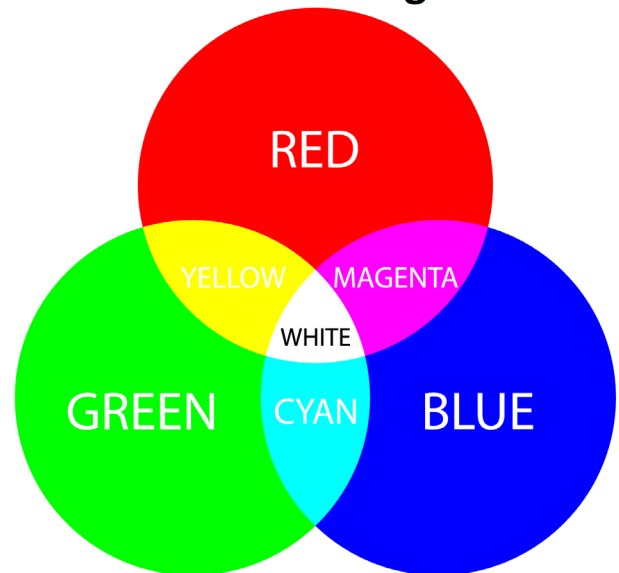
Uses: jewellery to make an object 'sparkle', to get different colours of light from white light, in lenses (e.g. glasses)



Parts of the Human Eye



Primary and Secondary Colours of Light



Uses of light

Shadow Theatre

What is it?

Opaque characters are placed between a light and a screen to make shadows

From:

from China and Indonesia originally



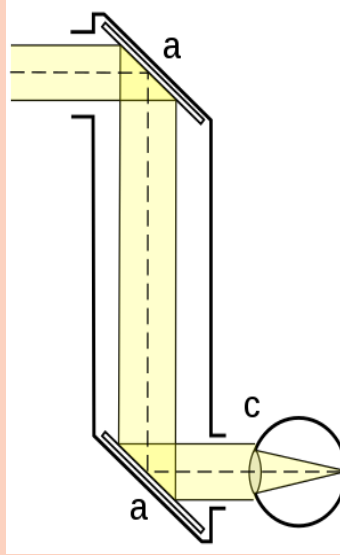
Periscopes

What are it?

Tube with two mirrors to reflect light along

Why?

The can help someone see around corners or in a submarine



Lenses

What are they?

Curved pieces of transparent materials

Why are they helpful?

They help focus light onto a point (convex) or spread light out (concave). Used in glasses – convex for long-sighted people, concave for short-sighted people.

