



-Light is a form of energy that makes it

possible to see.

Light is given off some objects (for example

the Sun). Darkness is the absence of light.

-Light can reflect off surfaces (e.g. mirrors).

Light is absorbed by other materials.

-Objects can be labelled as transparent,

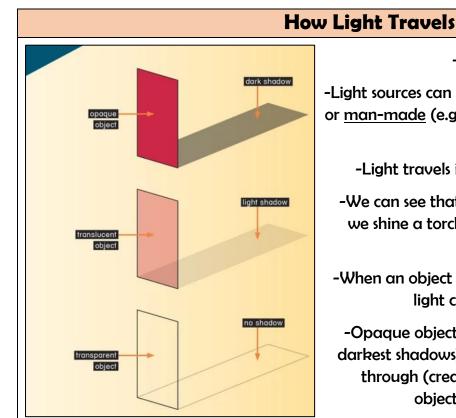
translucent, or opaque, depending on the

amount of light that they let through.

-Shadows are formed when light is blocked

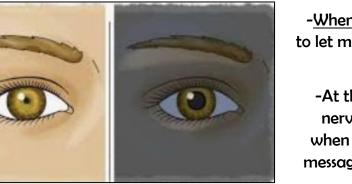
by an opaque object.

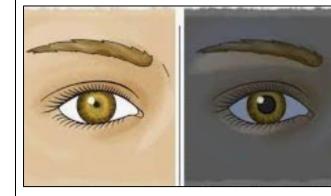
How do we see things around us?



Our Eyes

Our eyes have a small window at the front called a pupil, through which light can enter. The pupil looks as though it is black because it is dark inside our eyes.





What you should already know...



How We See Things

-We see things because...

a.) they are a light source, sending light into our eyes, or

b.) light is reflected from a light source off them and into our eyes.

When the light enters our eyes, we see the object!

-For example, we see The Sun because it is a light source, sending light into our eyes.

-However, The Moon is not luminous (does not produce its own light). We see it because light from The Sun reflects off it into our eyes.

- After light reflects off objects, it continues to travel in a straight line, but in a new direction.

			Light Spectrum	
Red	Orange	Yellow	Green	Blue
			Key vocabulary	

light, travels, straight, reflect, reflection, light source, object, shadows, mirrors, rainbow, filters



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-Light sources can be natural (e.g. The Sun, the stars) or man-made (e.g. street lamp, Christmas tree lights, glow stick, mobile phone, TV).

-Light travels in a straight line from light sources.

-We can see that light travels in straight lines when we shine a torch in a dark room, or when a ray of light comes through a window.

-When an object passes in front of a ray of light, the light can be blocked, creating a shadow.

-Opaque objects let no light through (creating the darkest shadows), translucent objects let some light through (creating fainter shadows), transparent objects let all light through (no shadow).

-When it is dark, our pupils go larger, in order to let more light in so that we can see better. In bright lights, our pupils go smaller.

-At the back of our eye is a sensitive sheet of nerves called a retina. They can detect light when it comes in through the pupil, and send messages to the brain about what we can see.

