Light

Key Vocabulary Incident Ray A ray of light that hits a surface. A ray of light that has bounced back after Reflected Ray hitting a surface. The law states that the angle of the The law of reflection incident ray is equal to the angle of the reflected ray. This is when light bends as it passes from Refraction one medium to another. E.g. Light bends when it moves from air into water. Visible Light that is visible to the human eye. It is made up of a colour spectrum. Spectrum A prism is a solid 3D shape with flat sides. Prism The two ends are an equal shape and size. A transparent prism separates out visible light into all the colours of the spectrum. Revisited from Year 3: Shadow An area of darkness where light has been blocked Describes objects that let light travel Transparent through them easily. Translucent Describes objects that things let some light through, but scatters the light so we can't see through them properly. Describes objects that do not let any light Opaque pass through them

General Knowledge

Be the BEST you can be

We need light to be able to see things. Light waves travel out from sources of light in straight lines. These lines are often called rays or beams of light.

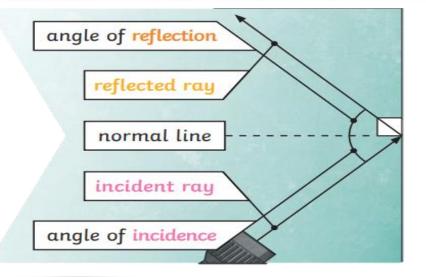
Light from the sun travels in a straight line and hits the chair. The light ray is then reflected off the chair and travels in a straight line to the girl's eye, enabling her to see the chair.





The spoon in

this water looks as if it is bent. This is because light bends when it moves from air to water. When light bends in this way, it is called refraction.



Rainbows are formed when the sun shines through water particles (transparent) and when white light passes through, it 'bends' and splits into the range of colours which make white light

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A shadow is always the same shape as the object that casts it. This is because when an opaque object is in the path of light travelling from a light source, it will block the light rays that hit it, while the rest of the light can continue travelling.

