Beacon Curriculum Science

Year 6 - Light - Half Term 4

Bending Light

Reflection Light reflects off shiny, bright or light surfaces. That is why you can see your reflection when you look in a mirror.

Refraction

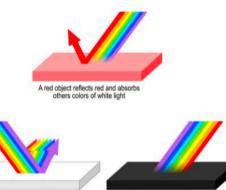
Water and bent shiny surfaces cause light rays to be reflected at different angles, meaning the reflection of the image is distorted.



Absorption and reflection of light

Colours

White light is made up of the colours of the rainbow. When light is refracted through a transparent object, a rainbow is formed.



A white object reflects all colors of white light equally An object is seen as black if it absorbs all colors of white light

Shadows

Opaque objects block the light rays so they can only travel around the edges of the object in straight lines. That is why a shadow is the same shape as the object.

The closer an object is to the light source, the bigger the shadow.

The further away the object is from the shadow, the smaller the shadow.

How We See



Light travels in straight lines. The light rays from a light source reflect off the object we are looking at. The light travels in a straight line and enters the eye through our pupil.

	Key Vocabulary				
light	a form of energy			To know	
light source	an object that provides its own light		statements I know how light travels.		
reflected	when light shines on a surface and bounces	back			
variable	any one of the elements of an experiment wi	hich could be changed			
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angle	the space between 2 intersecting lines				
mirror	a surface that reflects a clear image				
opaque	it describes materials which do not allow lig	ht to travel through		I know about how shadows can change.	
transparent	it describes materials which allow all light to	o travel through	I know how we can show why shadows have the same shape as the object that casts them. I know how to investigate how we can see objects.		
sunshade	a device giving protection from the sun				
rotate	to turn an object around a centre point				
optical	relating to the science of optics				
spectrum	a band of several colours				
What can you remember from previous units? Anything else you have learnt? What have you					

What can you remember from previous units?

Can you explain the difference between light sources and non-light sources? Can you remember how shadows are formed? Can you remember how and why shadows change throughout a day?

Anything else you have learnt? What have you enjoyed?

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