
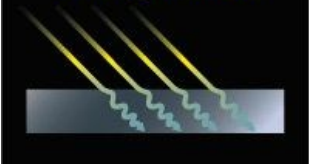
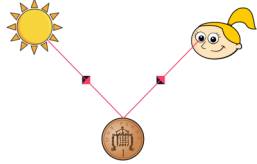



Key questions to discuss:
 What is a light source?
 What is a natural light source?
 What is an artificial light source?
 How does light travel?
 Do all materials reflect light?
 What is a shadow?


Enquiry Question
 How does the distance between the light source and the object affect the size of a shadow?

Vocabulary	
Light	energy that is needed to see
Eyes	the parts of the body that animals see with
Light source	objects that give out light
Natural light source	objects in nature that give out light
Artificial light source	made by humans
Dull	a surface that does not reflect much light
Reflection	the return of light from a material or surface
Shiny	a surface that reflects most light
Transparent	an object or material that allows all light to pass through it
Opaque	an object or material that does not allow any light to pass through it
Translucent	an object or material that allows some light to pass through it

Light

<p>Dark</p> <p>Darkness is the absence of light. Where there is no light, it is dark! Human vision is unable to see colours when there is high levels of darkness. At night-time, the sky is darker because there is a lack of light from the sun.</p> 	<p>Absorption</p> <p>When light hits an object, it may be absorbed into the object. This means that it doesn't bounce off or pass through. Some examples of materials that absorb light include wood and stone.</p> 	<p>Reflection</p> <p>Light may also reflect off the surface of an object. This means that light bounces off the object, sending it in another direction. Some examples of objects that reflect light are mirrors and metal surfaces.</p> 	<p>Translucent</p> <p>Light can also be transmitted through certain objects. This means that it passes through the object. It can be seen from the other side of the object. Some examples of objects that transmit light include windows and clean water.</p> 
--	--	---	---


Transparent	Translucent	Opaque
Transparent objects allow all of the light to pass through. This means that we can clearly see through them.	Translucent objects only allow some light to pass through them. This means that we can partially see through them.	Opaque objects do not allow any light to pass through them. This means we cannot see through them at all.






LIGHT PASS THROUGH COMPLETELY (Transparent Objects)

LIGHT PASS THROUGH PARTIALLY (Translucent Objects)

NO LIGHT PASS THROUGH (Opaque Objects)



Protection from the sun
 Some types of light, particularly the sun, can be dangerous for our eyes and skin. This is because they contain UV rays that can cause damage. There are several things that we can do to protect ourselves in the sun.

<p>Wearing Sunglasses</p> <p>Sunglasses reduce the amount of light that reaches our eyes.</p> 	<p>Covering up</p> <p>Clothes can help to block some of the UV rays that can damage our skin.</p> 	<p>Sun Cream</p> <p>This stops our skin from absorbing as many UV rays, protecting it from harm.</p> 
---	--	---