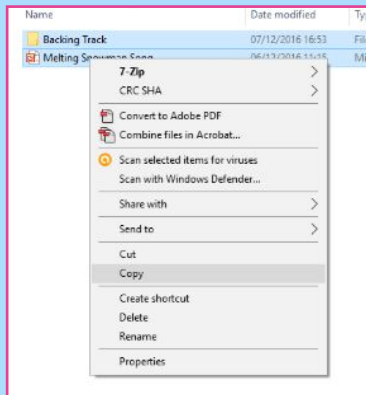
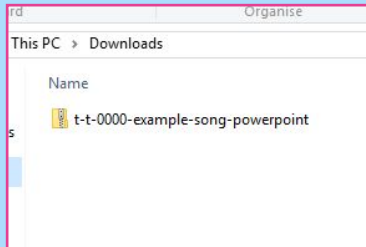




Guidance for Video/Audio in PowerPoints

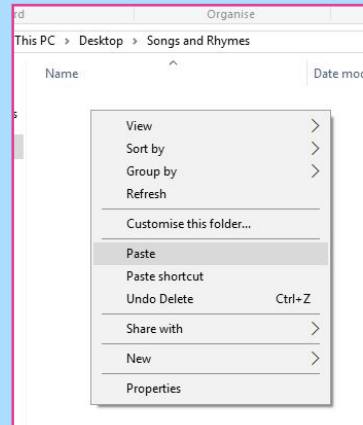
1

Open the downloaded folder and copy all the files.



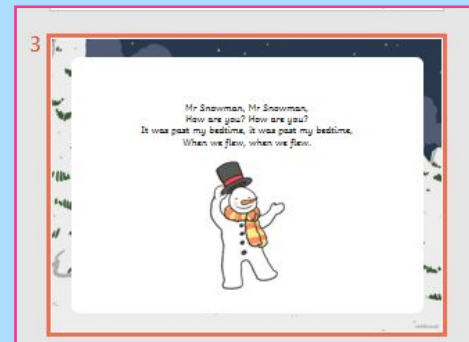
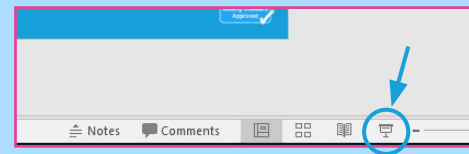
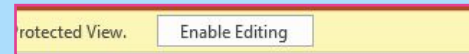
2

Paste the copied files into a new folder.



3

To use the PowerPoint, enable editing and put into slide show mode.



Please note the embedded audio may not be compatible with earlier versions of PowerPoint.

You may wish to delete this slide before beginning the presentation.



Science

Light



Light





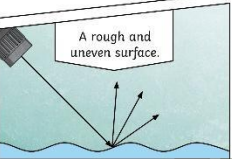
Knowledge Organiser Quiz



How to Play


Read each question and select the correct answer.

Light
Year 3

Key Vocabulary	Key Knowledge
<p>light A form of energy that travels in a wave from a source.</p> <p>light source An object that makes its own light.</p> <p>dark Dark is the absence of light.</p> <p>reflection The process where light hits the surface of an object and bounces back into our eyes.</p> <p>reflect To bounce off.</p> <p>reflective A word to describe something which reflects light well.</p> <p>ray Waves of light are called light rays. They can also be called beams.</p>	<p>We need light to be able to see things. Light travels in a straight line. When light hits an object, it is reflected (bounces off). If the reflected light hits our eyes, we can see the object. Some surfaces and materials reflect light well. Other materials do not reflect light well. Reflective surfaces and materials can be very useful...</p> <div style="display: flex; justify-content: space-around;">   </div>
<p>Mirrors reflect light very well, so they create a clear image. An image in a mirror appears to be reversed. For example, if you look in a mirror and raise your right hand, the mirror image appears to raise its left hand.</p> 	<p>The surfaces that reflect light best are smooth, shiny and flat.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>A smooth, shiny, flat surface.</p> </div> <div style="text-align: center;">  <p>A rough and uneven surface.</p> </div> </div>

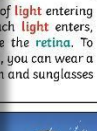
To look at all the planning resources linked to the Light unit, click here.

Light enters the eye



Light enters the eye through the cornea. It passes through the lens and hits the retina. The light is then sent to the brain.

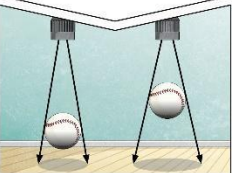
Light enters the eye



Light enters the eye through the cornea. It passes through the lens and hits the retina. The light is then sent to the brain.


Shadows

A shadow is caused when **light** is blocked by an opaque object. A shadow is larger when an object is closer to the **light** source. This is because it blocks more of the **light**.



Light from the sun passes through a hole in a screen. The shadow of the ball is cast on the opposite side of the screen.


Light enters the eye




Light enters the eye through the cornea. It passes through the lens and hits the retina. The light is then sent to the brain.

Shadows

When a **light** source is to one side of an object, the shadow will appear on the opposite side. The shadow will also be longer.



midday



sunset



1

What is a light source?

A an object that reflects light



B an object that makes its own light



C an object that does not let light pass through it



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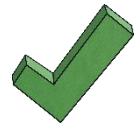
Next



2

How does light travel?

A in a straight line



B in a curved line



C in curved and straight lines



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Next



3

What happens to the light ray when it hits this object?

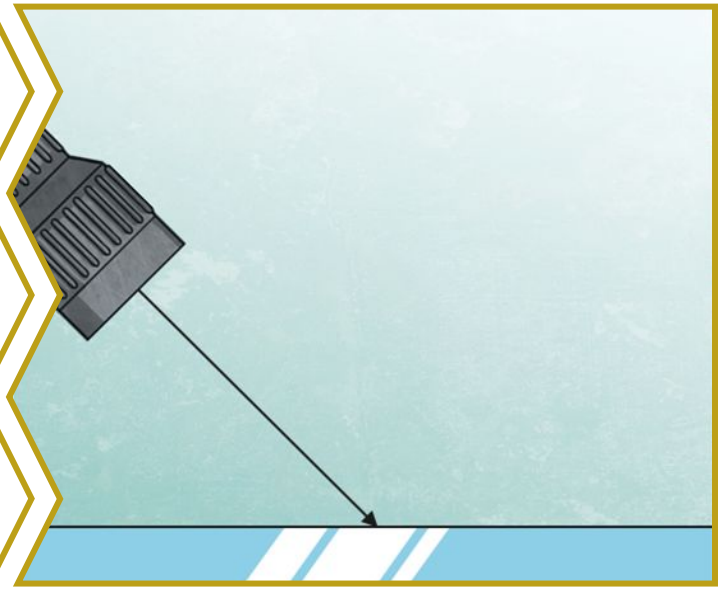
A it stops



B it bounces back the way it came



C it is reflected



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Next



4

What type of surface reflects light the best?

A rough and dull



B smooth and shiny



C big and uneven



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Next



5

Which of these people does NOT need to wear reflective clothing?

A a firefighter



B someone in pyjamas going to bed



C a cyclist riding home in the dark



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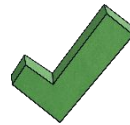
16

Next

6

What happens to an image when looking in a mirror?

A it appears to be reversed



B it appears to be rotated



C it appears exactly the same as the real thing



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Next



7

What is dark the absence of?

A objects



B sunlight



C light



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Next

8

What part of the eye is this?

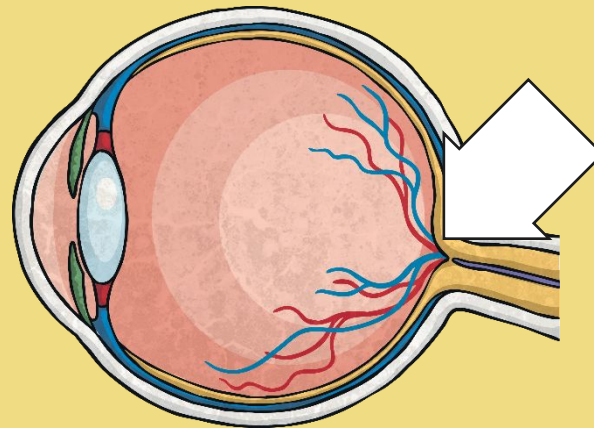
A pupil



B retina



C iris



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Next

9

What does the pupil in your eye do?

A controls the amount of light entering the eye



B sends information to the brain



C changes the focus of light rays in order to create clear images



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Next



10

Why is it important to wear sunglasses with a UV rating?

A to help you see colours more clearly



B to protect your eyes from too much light causing damage to your retina



C to help the sun's rays reflect off the lenses



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Next

11

How would you describe all of these objects?

A opaque



B translucent



C transparent



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16

Next



12

What is a translucent object?

- A** an object that lets some light through but that can't be seen through properly 
- B** an object that does not let any light pass through 
- C** an object that lets light through easily so you can see through the object 

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- 16

Next

13

Which of these objects is opaque?

A wooden door



B stained glass window



C magnifying glass



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Next



14

What causes a shadow?

A when the light source is too far away and no more light can travel



B when light is blocked by a transparent object



C when light is blocked by an opaque object



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Next



15

What happens to a shadow when an object is moved further away from the light source?

A it gets bigger



B it gets smaller



C it stays the same size



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Next




16

When light hits an object, where does the shadow appear?

A to the opposite side of the object 

B directly underneath the object 

C no shadow is formed 

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Next



Well Done!

