

? How do ?
? we see? ?

This question is the theme for this unit. We will revisit it every lesson and your understanding will get greater each time.

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Read the statements you have been given and stick them into the table under the headings True, False or Not Sure to show your understanding.

Don't worry, we will come back to this later in the term and see the progress you have made.

Mentimeter Word Cloud

With your partner, look at the list of scientific vocabulary for the unit. Circle the words that you do not understand so that I can use this to create a class word cloud.

What does the word cloud show us?



Light seems to be all around us but where does it come from?

Can you name some sources of light?



How does light travel from the light source?

Light waves travel out from sources of light in straight lines. These lines are often called rays or beams of light.

Light travels as a wave. Unlike waves of water or sound waves, it does not need to travel through anything. This means light can travel through a vacuum (a completely airless space).



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This lampshade has a pattern made of holes cut into it. The shade blocks a lot of the light rays but allows some through. You can clearly see how the rays are emitted from the bulb in all directions but they all travel in straight lines.

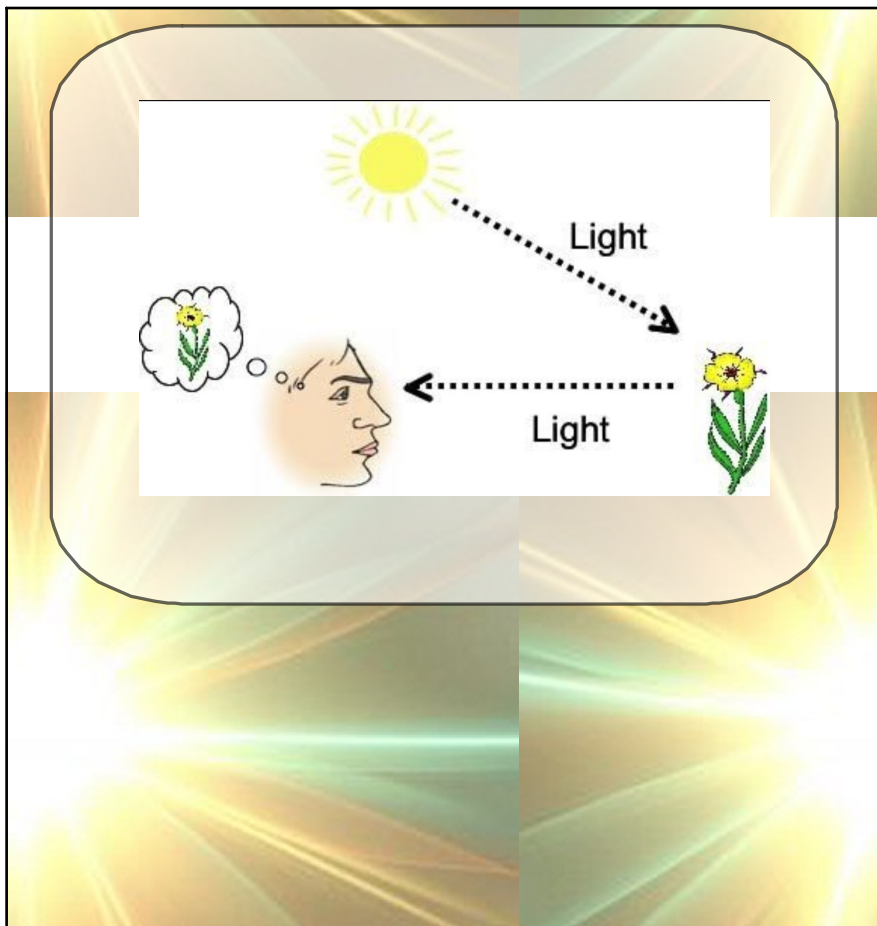


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How does light help us to see?

- *Rays of light are sent out from the light source and travel in a straight line.*
 - *The light rays hit objects around us.*
 - *The rays of light then reflect off (bounce off) objects and travel into our eyes.*
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- *This reflection of light allows us to see the object.*
 - *Without a source of light, we would not be able to see anything.*

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<u>DATE</u>
<u>L.O. I am learning how light travels.</u>
Draw a diagram to show how we see things.
Underneath, write an explanation to explain your diagram.
Challenge: Can you use these words in your explanation?
ray emit straight
reflect source wave

What about reflectors of light?

These can look like light sources but are they really?



The moon reflects the light of the sun back to Earth. It does not produce its own light.



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What would happen if...?

Science?

Let's create a class list of 'WWHI...?' questions on the next slide.

What would happen if...?

A large, empty rectangular box with a thin black border, intended for students to write their responses to the question 'What would happen if...?'. The box occupies most of the page's width and height.