



Light and Dark

What Is Light?

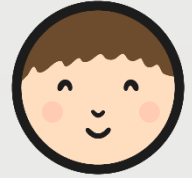
- Can you name some things that give out light?
- How does light help us to see?
- What is dark?
- How do mirrors work?
- What is reflection?
- How are shadows made?

This unit of work is all about light.

You will find the answers to all these questions, and more!



What Is Light?



What do you already know?






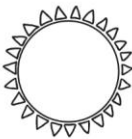






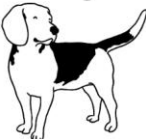


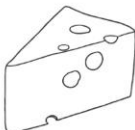


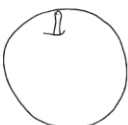





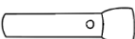

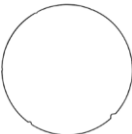


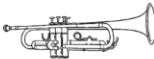


Create a mind map to show what you already know about light.
Can you think of any questions you would like to find out about light?

What Is Light?

Light Source Sorting Game







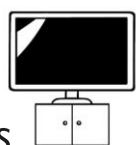
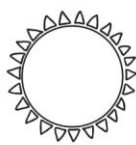









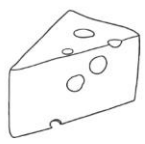


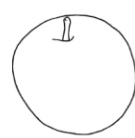





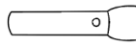

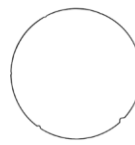
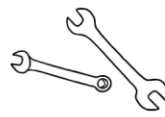

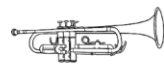


Can you sort the set of cards? Put an S next to the ones that you think are light sources. Or write the name of the sources down on a piece of paper.

candle 	flowers 	boots 	fire 	television 	Sun 	toothpaste 	ice cream 
football 	lantern 	lightning 	scooter 	dog 	lighthouse 	pencil 	cheese 
bucket 	lamp 	apple 	ice cream 	window 	mirror 	eye 	diamond 
torch 	fireworks 	Moon 	spanners 	sunglasses 	trumpet 	camera 	laptop 

Light Source Sorting Game



Answers

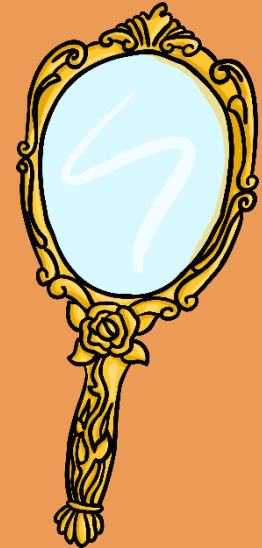
candle  S	flowers 	boots  S	fire 	television  S	Sun  S	toothpaste 	ice cream 
football 	lantern  S	lightning  S	scooter 	dog 	lighthouse  S	pencil 	cheese 
bucket 	lamp  S	apple 	ice cream 	window 	mirror 	eye 	diamond 
torch  S	fireworks  S	Moon 	spanners 	sunglasses 	trumpet 	camera  S	laptop  S

Light Source Sorting Game

The Tricky Ones!

Some of the cards were tricky to sort - the moon, the window and the mirror are some examples.

These objects look like light sources, but they are not!



Light Source Sorting Game

The Tricky Ones!

The moon is not a light source because it does not make its own light.
We can see the moon because light from the sun reflects off it
(bounces off it) back to the earth.



Light Source Sorting Game

The Tricky Ones!

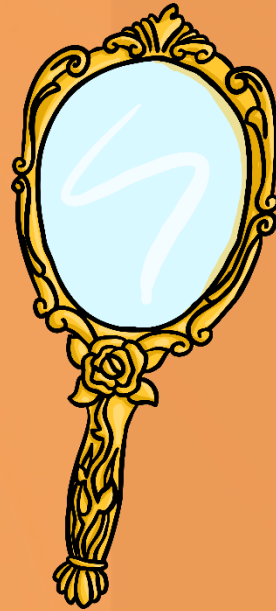
The window is not a light source. It is an opening that lets the light from the sun or other light source into the room.



Light Source Sorting Game

The Tricky Ones!

The mirror is not a source of light because it does not make its own light.
It reflects light from other sources.



What Is Dark?

Dark is the absence of light.

If there is no light from a light source, it will be dark.

Think about times when it is dark, or places where it is dark. Which sources of light are absent, or switched off?

Can we see in the dark?

Complete the activity

Go around your house and list the light sources and non light sources that you can find. Then fill out the missing words at the bottom of your sheet