but in fact do not

make their own light:



### Light



We need light in order to see things because light reflects from objects surfaces. When light is absent, we call it dark.

vvriai is a light sourcer	171 source of light is something that makes its own light.
Names of light sources:	The Sun, the stars, fire, lights powered by electricity, lights powered by
	batteries (torches) and some animals such as fireflies and glow-worms

Objects that you may	The Moon
think are light sources	A mirror

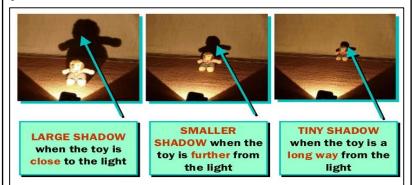
Shiny objects like aluminium foil.

What is a light source? A source of light is something that makes its own light

These object's surfaces reflect light from a light source.

How are shadows	When light from a source is blocked by an opaque object, you get a
formed?	shadow.

If an object is moved closer to the light source, the shadow gets bigger. How does the size of If an object is moved further away from the light source, the shadow the shadow change? gets smaller.

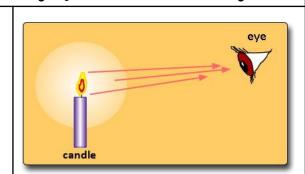


WARNING!	NEVER LOOK DIRECTLY AT THE SUN EVEN WHEN WEARING
	SUNGLASSESI

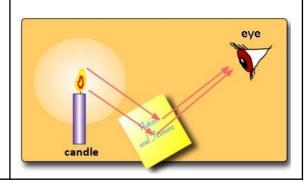
Key Vocabulary and Phrases		
Absent	missing	
Opaque	An object you are not able to see through. Light does not travel through it.	
Warning	Something that is said or written to tell people of danger.	
Source	A thing from which something starts.	
Electricity	A form of energy that provides power to devices.	
Reflection	When light bounces off a surface.	
Dark	The absence of light.	

#### We see objects when light from a source enters our eye.

Light travels directly from a light source (the candle flame) into your eyes.



Light travels from the light source, bounces off the object (the paper) and into your eyes, so that you see the object.



# Science

## Working Scientifically — Light



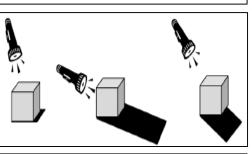
Key Vocabulary and Phrases		
ask questions	Use the question words  What, where, when why, how	
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)	
classify, sort and group	Organise objects by their features (e.g. colour, size, shape).	
diagram	A labelled picture	
record data	Drawings, scientific diagrams, photos, classification keys, tables, bar graphs and line graph, writing and numbers are ways to show what I have found out.	
reporting and presenting findings	Giving reasons, explaining causes and relationships, explaining results and trusting its accuracy	

### What I could investigate

What materials block light? Investigate the best materials to make a shadow puppet.



How do shadow sizes change?



How do mirrors reflect light?



Equipment I could use

Chalk to draw around the shadow outline.



Translucent, opaque and transparent materials to see which block light.



Torches to shine through the materials.



Bendable mirrors to investigate reflecting light.



A camera



Pencil and paper



