Science Focus:	Light		Year	3	Advent 2	
Wh	at? (Key Knowledge)			What	? (Key Vocabulary)	
Light Sources			Spelling	ng Definition/Sentence		
We need light in order to see things. When there is no light we say it is dark.			Opaque	An object you are not able to see through.		
What is a light source?	A light source is something that makes its own light.		Warning	Something that is said or written to tell people of danger.		
Common sources of light	The Sun The stars Flames Electric lights Some animals (fireflies and glow worms make their own light)		Source	A thing from which something starts.		
			Electric	A form of energy that provides power to devices.		
Things you may think are light sources but aren't.	The Moon A mirror Shiny objects These basically reflect light from a light source but aren't light sources themselves.		Reflection	When light bounces of a surface.		
			Diagrams and Symbols			
Reflection	Light bounces off some materials better than others. Shiny objects reflect light well.	We see things when light from a source enters our eyes.				
	The Sun					
WARNING	IT IS NOT SAFE TO EVER LOOK DIRECTLY AT THE SUN, EVEN WHEN WEARING SUN GLASSES.					
	More about light				TIE .	
Things you need to know about light	Light travels in straight lines					
	Light travels very, very fast - 186,282 miles per second. (that's like travelling around the world over 7 times in a second)					
		H	Above: Light travels directly from the light			

Above: Light travels directly from the light source (candle flame) to the eye.

Here the light goes form the light source, bounces off the object and into your eyes, so that you see the object.

Shadows

shadow is formed.

How is a shadow formed?

When light from a source is blocked by an opaque object, you get a shadow.

· If something gets in the way of light, a



How does the size of the shadow change?

- If an object is moved closer to the light sources, the shadow gets bigger.
- If an object is moved further away from the light source, the shadow gets smaller.





LARGE SHADOW when the toy is close to the light

SMALLER SHADOW when the toy is further from the light

TINY SHADOW when the toy is a long way from the light

Prior Learning:

Year 2

I know how to:

- Compare and group together a variety of everyday materials on the basis of their simple physical properties
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses

Year 1

I know how to:

Describe the simple physical properties of a variety of everyday materials