Light and Shadow

Amazing Fact

You can buy a torch which is 20 000 times brighter than a regular torch. It can be used to start fires, melt polystyrene and even fry eggs!

Do you know how light travels? Select the missing words from the torch below and fill in the gaps.

Challenge 1

Do you know how light travels? Select the missing words from the torch below and fill in the gaps.

Light travels in (1)	lines from a (2)		(of light,	
which bounces off an object.	We can see the object	ct because th	e (3)enters	our eyes.	
Wood and cardboard are (4)		_objects, whic	ch light cannot trav	vel through.	
<u>(5)</u> is o	ι (6)		material which all	ows light to	
pass through. Tissue paper i	s (7)		which will let som	e light	
travel through. When an obje	ect blocks out the (8)		, a <u>(9)</u>		
is formed. Shadows are (10)	at midday and (11)				
ı					
				light	
			transparent	source	
0	light	longest opaque	shadow	straight	
			translucent	glass	
				shortest	





Challenge 2

Sort the materials into 3 groups: opaque, transparent and translucent.

Transparent Opaque		Translucent	
paper		ice cubes	window
pencil		sandwich bag	glass bottle
sticky tape		chair	tin can

Challnege:

You could also try to find out:

- what the brightest light on Earth is;
- · how far searchlights can cast their beams;
- how far your torch at home will shine;

