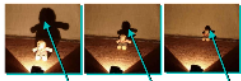
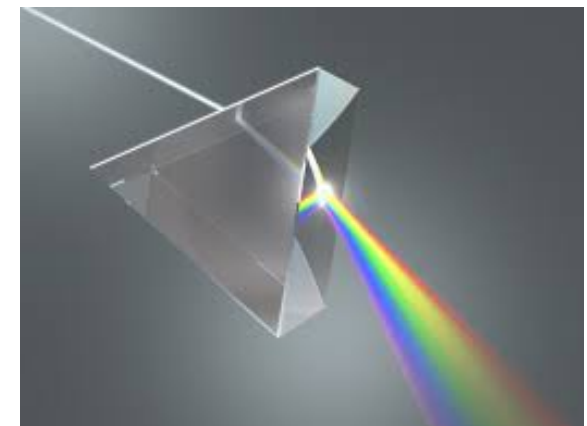
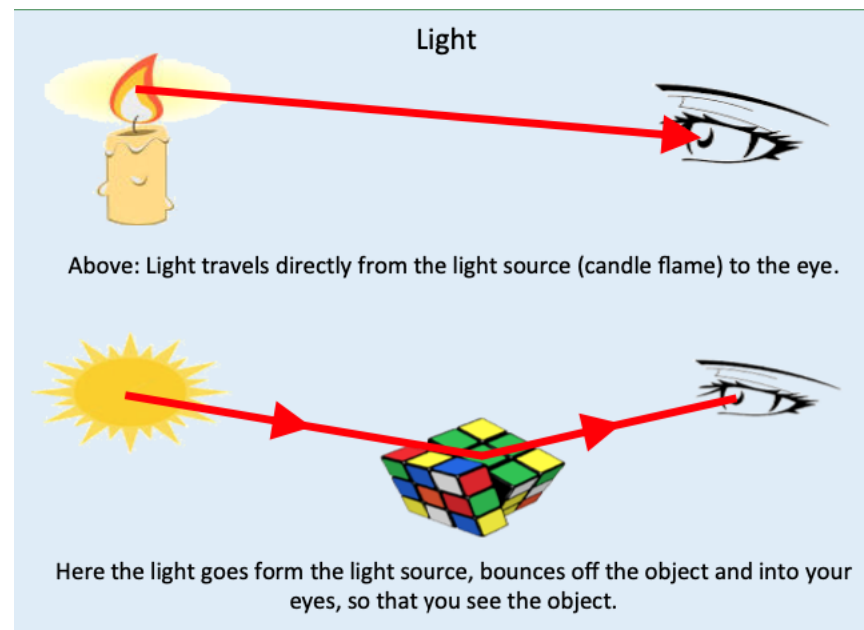


What? (Key Knowledge)	
Light sources	
We need light in order to see things. When there is no light, we say it is dark.	
What is a light source?	<ul style="list-style-type: none"> A light source is something that makes its own light.
Common light sources	<ul style="list-style-type: none"> Sun The stars Fire Electric lights Some animals (fireflies and glow worms)
Things that you think are lights sources and they aren't	<ul style="list-style-type: none"> The moon Water A mirror <p>This is because light reflects off these items and it appears as though light is coming off them</p>
Reflection	<ul style="list-style-type: none"> Light bounces off some materials better than others making them more reflective Shiny objects reflect light well.
More about light	
Things you need to know about light	<ul style="list-style-type: none"> 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) If something gets in the way of light, a shadow is formed.
Shadows	
How is a shadow formed?	When light from a source is blocked by formed? an opaque object, you get a shadow.
How does the size of the shadow change?	<ul style="list-style-type: none"> 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.
<p>Size of shadows</p>  <p>LARGE SHADOW when the bar is close to the light</p> <p>SMALLER SHADOW when the bar is further from the light</p> <p>TINY SHADOW when the bar is very far from the light</p>	

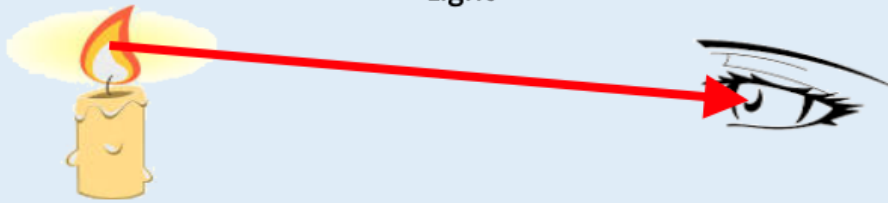
What? (Key Vocabulary)	
Spelling	Definition/Sentence
light	Light is a form of energy that enables us to see all the things around us
transparent	is the property of allowing light to pass through something. An object that is transparent can be seen through.
translucent	A translucent material lets light pass through, but objects on the other side can't be seen clearly
opaque	not letting light through. not transparent
surface	the outside or any one side of an object
shadow	shaped like a sphere
reflect	to bend or throw back (waves of light, sound, or heat). A polished surface reflects light
light rays	Light is a form of energy that enables us to see all the things around us. Light source

Take it further at home...
<ul style="list-style-type: none"> Design and make a periscope Investigate refraction using water and a torch Can you create a puppet show and investigate how they change lengths. Make a working model of how humans see. Fill in the vocabulary chart – try and do this from memory with them!

Diagram and symbols



Light



What? (Key Vocabulary)

Spelling	Definition/Sentence
	Light is a form of energy that enables us to see all the things around us
transparent	
	A translucent material lets light pass through, but objects on the other side can't be seen clearly
opaque	
	the outside or any one side of an object
shadow	
	to bend or throw back (waves of light, sound, or heat). A polished surface reflects light
light rays	

