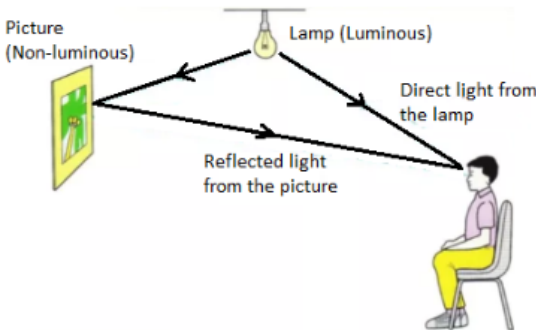
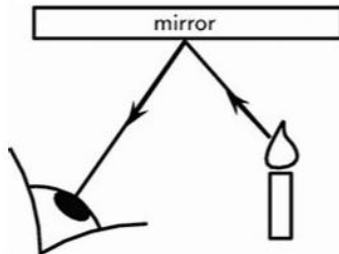


Year 6: Science Light Knowledge Mat

Subject Specific Vocabulary		Luminous and non-luminous objects	Important knowledge
light source	Any object whether natural or artificial which emits light.	<p>Objects that emit light called luminous. Non-luminous objects doesn't emit their own light and are visible only when light from luminous source reflects from them.</p> 	<ul style="list-style-type: none"><input type="checkbox"/> I know how to classify luminous and non-luminous objects.<input type="checkbox"/> I know that we see objects because light travels in straight lines from light sources to our eyes or from light sources to objects and then to our eyes.<input type="checkbox"/> I know why shadows have the same shape as the objects that cast them.<input type="checkbox"/> I know that concave lenses diverge the light that hits them and convex converge.<input type="checkbox"/> I can raise a scientific question that can be tested.<input type="checkbox"/> I can decide on the most appropriate format to present my data and my results.<input type="checkbox"/> I can explain how the evidence I have collected supports or refutes my idea.<input type="checkbox"/> I can make a prediction and explain my reasons using scientific knowledge.<input type="checkbox"/> I can use more than one piece of evidence when I form a conclusion.
light ray	A path of photons visible as a beam of light.		
ray diagram	A diagram which shows how light travels, including what happens when it reaches a surface.		
concave	A concave lens is thinner in the middle than it is at the edges.		
convex	A convex lens is curved outwards like the surface of a sphere, so its middle is thicker than its edges.		
anomaly	A result that is not normal or is unexpected.	Ray Diagrams	
analyse	To examine something methodically and in detail, in order to explain it.	<p>Light travels from objects from objects into our eyes so we see them. The diagram below shows the reflection of candlelight in a mirror.</p> 	
refute	Demonstrate a hypothesis to be false.		
confirm	Use evidence to demonstrate the truth of a hypothesis.		
hypothesis	An idea for something that has not yet been proven.		