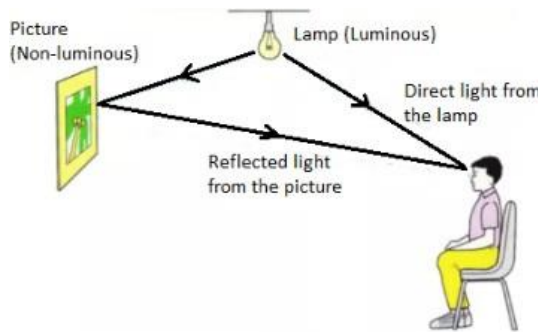


Year 6: Science Light Knowledge Mat

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 are “luminous”. Non-luminous objects don’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.
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.		
reflection	When light returns from a surface.		
refraction	When light changes direction or bends when it moves from one material to the other.		
anomaly	A result that is not normal or is unexpected.	<h2>Ray Diagrams</h2>	<p>Working Scientifically</p> <ul style="list-style-type: none"> <input type="checkbox"/> I can raise a scientific question that can be tested. <input type="checkbox"/> I can plan and conduct different types of scientific enquiries to answer questions. <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.
analyse	To examine something methodically and in detail, in order to explain it.		
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.		
		<p>Light travels from objects into our eyes so we see them. The diagram below shows the reflection of candlelight in a mirror.</p> 