Light Knowledge Mat

Sticky Knowledge- What do I need to know?		Key Vocabulary- What words do I need to know and understand?	
Week Light will 1 Until it hit does not	Light will travel in a completely straight line until it hits an object that will reflect it. Space does not have any light. We can see things in	light wave	One of the characteristics of light is that it behaves like a wave. Light can be defined by its wavelength and frequency. The frequency is how fast the waves vibrate up and down.
	space due to light bouncing off of the objects in space.	light source	Light, or illumination, is a form of energy that travels in waves, like sound. You can find different sources of light, such as a candle or the sun
Week 2	We see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	concave	Is a lens that curves inwards and reflects light differently as a result.
		convex	Is a lens that curves outwards and reflects light differently as a result.
Week 3	28 Light doesn't travel as fast when it has to pass through mediums that are different, such as air, water or glass. The light that we see from the sun actually left the sun ten minutes before we see it.	filters	A filter is a transparent material that absorbs some colours and allows others to pass through.
		lens	A lens is a curved piece of glass or plastic designed to refract light in a specific way.
Week 4	Light travels in straight lines and therefore shadows have the same shape as the objects that cast them.	retina	The retina is at the back of your eye and it has light-sensitive cells called rods and cones.
Week 5	This week we will investigate which materials are best at reflecting light.	cornea	The cornea is thin, clear and covers your eye. It's important because it helps you see by focusing light as it enters the eye.
Week 6	Our final lesson will be solving the problem: How can a detective see over a wall? We will use all our knowledge gained from previous lessons to build periscopes.	iris	By opening and closing the pupil, the iris can control the amount of light that enters the eye.
		pupil	The pupil can be compared with the shutter of a camera. It is surrounded by the iris which is the coloured part of the eye.

