	Science: Light I Year Six I Term 2			Vocabulary	
THE HAMPDEN WAY	Light Facts		The speed of light is	Transparent	An object or material that allows light to pass through it. Objects behind a transparent material can be distinctly coop
	discovery that light was made up of a spectrum of colours.	sun actually left the sun ten minutes before we see it!	incredibly fast! It could travel from Earth to the Moon in 1.255 seconds!	Translucent	An object or material that partially allows light to pass through it. Light can be seen through a translucent
We are a team	Plants convert light energy into their 'food' using a process called	The study of the behaviour and properties of light is called optics(a branch of phycics)	If you could travel at the speed of light, you would be able to go around the world	0.000.000	material, but objects cannot usually be distinctly seen. An object or material that does not allow any light to
Key Concents	photosynthesis	pitysics)	7.5 times per second:	Opaque	pass through it.
How light travels	Light reas barel from the light source. Light weight source, so has a weight works to the type		Shadow	A dark area/shape produced by an object blocking the light from a light source travelling to another surface.	
	off object	or material to carry its energy (unlike sound waves).		Reflect	Light rays 'bounce-off' objects so that the objects can be seen.
How shadows are formed	Suce of light Object Screen (c) a way)	Since light travels in straight lines, when an opaque object (one that blocks light) gets in its path, a dark area will be formed behind it, following the same shape/outline of the object.		Mirror	A surface which completely reflects the light directed towards it – these usually create a clear 'mirror image'
How light is reflected		Light from a light source 'bounces off' objects and changes direction. All objects reflect light: smooth and shiny surfaces reflect all rays of light at the same angle, whereas rough or dull surfaces scatter the light rays.		Light Source	The object/place where light energy is produced (the sun is our biggest light source).
	reflected ray incident ray			Refraction	The 'bending' of light as it passes through an object or material – glass lenses 'bend' light.
How light is refracted	The last of the la	Light rays 'bend' as they pass from one transparent medium to another. The speed of the light travelling is slowed down, making some objects appear larger in water (for example). Light 'splits' due to different colours		Spectrum	A 'rainbow' of colours created by the refraction of light through glass/water.
How do we see?	Gass Priore Musices to Lens more sym Refina	within it being slowed down at different rates. Light rays travel towards our eyes after being reflected by all the objects around us. The reflected light travels into our pupils (controlled by the iris), through a lens and onto the retina at the back of the eye. The retina then sends the information to our brain.		Iris	The coloured part of the front of the eye which controls the amount of light entering the eye by changing the size of the pupil
	Pupil Missos to Forea Bissos Comes Oppo nerve to brain			Pupil	The opening in the centre of the front of the eye. It appears to be black, but is a transparent opening in the centre of the iris.