

Y8 PHYSICS	8J Light Learning Checklist	I can do this already	Covered in Class	Strength or weakness?	Revised it?
8Ja	Recall the meanings of words that describe materials and how they affect light (transparent, translucent, opaque, transmit, absorb).				
	Describe how light travels.				
	Use the ray model of light, in diagrams, to explain how we see things.				
	Describe some similarities and differences between light and sound.				
8Jb working scientifically	Represent rays of light as straight lines with arrows showing the direction of travel.				
8Jb	Describe some uses of plane mirrors.				
	State the meanings of words connected with reflection (such as angle of incidence, normal, etc).				
	Describe the difference between specular reflection and scattering.				
	Recall the law of reflection and use it to make predictions.				
	Use ray diagrams to explain the formation of an image in a plane mirror.				
8Jc	Describe some uses of lenses.				
	Recall that light travels at different speeds in different materials.				
	Explain why refraction occurs, and use ray diagrams to describe the refraction of light as it passes into and out of different materials.				
	Describe the effects of convex lenses on parallel beams of light.				
	State the meaning of focal length, focus and principal axis and relate the power of a lens to its shape.				
8Jd	State the parts of the eye and cameras, and explain their functions.				
	Describe similarities and differences between eyes and cameras.				
	Describe the way our eyes detect different colours, and recall the primary and secondary colours of light.				
8Je Literacy	Prepare effective presentations				
8Je	Describe how to split light into different colours using a prism, and recall the colours of the spectrum, in order.				
	Explain how filters can be used to make coloured light.				
	Explain why coloured objects appear coloured and why they look different in light of different colours.				