4 4.2 Checklist

Activate for AQA

Lesson	Know	Apply	Extend
4.2.1 Light	I can describe some ways that light interacts with materials. ☐	I can describe what happens when light interacts with materials. ☐	I can predict how light will interact with different materials. ☐
	I can state the speed of light. ☐	I can explain how ray diagrams can explain the formation of shadows. ☐	I can use ray diagrams to explain what observers see during an eclipse. ☐
	I can state the positions of the Earth, Moon, and Sun during a solar eclipse. ☐	I can use ray diagrams to describe what observers see during an eclipse. ☐	
4.2.2 Reflection	I can, with guidance, construct ray diagrams to show how light reflects off mirrors and forms images. ☐	I can explain how images are formed in a plane mirror using a ray diagram. ☐	I can use a ray diagram to explain how an image in a mirror changes as you move the mirror/object, or to explain the formation of images in multiple mirrors. ☐
	I can identify examples of specular and diffuse reflection. ☐	I can explain the difference between specular and diffuse reflection. ☐	I can predict how light will reflect from different types of surface. ☐
	I can use appropriate equipment safely with guidance. ☐	I can use appropriate equipment and take readings safely without help. ☐	I can take accurate readings using appropriate equipment and working safely. ☐
4.2.3 Refraction	I can describe what happens when light is refracted. ☐	I can use a ray diagram to describe how light travels through a transparent block. ☐	I can predict whether light will refract when it hits a hard surface. ☐
	I can state a difference between what happens to light when it goes through a convex lens and a concave lens. ☐	I can use a ray diagram to describe what happens when light travels through a convex or concave lens. ☐	I can draw ray diagrams to show what happens when light goes through a convex or concave lens. ☐

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	I can record some observations as a diagram with help. ☐	I can record observations using a labelled diagram. ☐	I can record observations using labelled diagrams, and apply this to other situations. ☐
4.2.4 The eye and vision	I can name parts of the eye. ☐	I can describe how the eye works. ☐	I can explain how the eye forms an image. ☐
	I can name two problems that people can have with their vision. ☐	I can name the lens used to correct short sight, and the lens used to corret long sight. ☐	I can explain how lenses correct vision. ☐
	I can describe problems people have with their eyesight. ☐	I can describe how lenses correct short-sight and long-sight. ☐	I can use ideas about refraction to explain the action of lenses in glasses and contact lenses. ☐
4.2.5 Colour	I can state what happens to light when it passes through a prism. ☐	I can explain what happens when light passes through a prism. ☐	I can explain why a prism forms a spectrum. ☐
	I can state the difference between colours of light in terms of frequency. ☐	I can describe how primary colours add to make secondary colours. ☐	I can explain the formation of secondary colours. ☐
	I can state the effect of coloured filters on light. ☐	I can explain how filters and coloured materials subtratc light. ☐	I can predict how coloured objects will appear given different coloured lights and filters. ☐
	I can predict how red light will appear on a white surface. ☐	I can predict the colour of objects in red light and the colour of light through different filters. ☐	I can predict the colour of objects in lights of secondary colours, giving a reason for the prediction. ☐