

Gawber Primary School Science

PHYSICS: Light

	FS2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Science Knowledge End Points:	• Understand difference between day and night	• Understand that light comes from a light source • Recognise light sources • Understand the differences between dark and light • Begin to understand shadows and how they are made • Explore reflective surfaces and realise they are not a source of light	• Identify reflective materials • Understand opaque and transparent in relation to properties of materials	• Recognise that they need light in order to see things and that dark is the absence of light • Notice that light is reflected from surfaces • Recognise that light from the sun can be dangerous and that there are ways to protect their eyes • Recognise that shadows are formed when the light from a light source is blocked by an opaque object • Find patterns in the way that the size of shadows change.	• Understand how the safety lamp in coal mining helps them to see	• Recognise that light appears to travel in straight lines • Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye • Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes • Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. • Understand refraction and angles of incidence involving mirrors	• Understand the importance of light and shadows in relation to photography and Art
Key Scientists Study:		Joseph Swann		Jutus Von Liebig Lewis Latimer		Percy Shaw	



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Key Vocabulary:	Day, night, light, dark, sun	Light, light source. Dark, reflective, shadows	Opaque, transparent, reflective, property, materials	Light, dark, sight. Surfaces, reflected, reflective. Rays, protection, blindness, danger. Shadow, light source, blocked, opaque		Light, travel, straight lines, ray. Reflect, eye, retina, cornea, iris, pupil. Light source, concave, convex, lens, filters. Shadows, shape, cast, opaque, translucent, transparent, refraction, angle of incidence, angle of reflection	
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Science Knowledge End Points: Black = Normal NC Positioning Blue = NC requirement but moved Red = Extra learning