

Science-Zephaniah and Bowie Light and Sight Spring 1

Objective	What it looks like
Knowledge: 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.	·
Knowledge: Recognise that light appears to travel in straight lines Working Scientifically: Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	Children discuss the Sun as our most important source of light and they are shown what a light beam looks like. The teacher shows the class a model of the path of light from the Sun to Earth using a torch in a dark room.
Knowledge: 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.	
Knowledge: 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. Working Scientifically: Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.	investigate bouncing a tennis ball off an even wall to model how light can be reflected and then contrast the action on an uneven surface. Children make periscopes and discuss the path of light



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Knowledge: Use the idea that light travels in straight lines to explain	
that objects are seen because they give out or reflect light into the	manufacturer and consider how clothes can keep you safe. Discuss
eye.	how children will record and present their results. After the
Working Scientifically: Taking measurements, using a range of	investigation, children share their reports with the class.
scientific equipment, with increasing accuracy and precision, taking	
repeat readings when appropriate.	
Working Scientifically: Recording data and results of increasing	
complexity using scientific diagrams and labels, classification keys,	
tables, scatter graphs, bar and line graphs.	
Knowledge: Use the idea that light travels in straight lines to explain	Children create shadows of different lengths and directions. With
why shadows have the same shape as the objects that cast them.	a child volunteering, the teacher demonstrates to the class the
Working Scientifically: Planning different types of scientific enquiries	'reverse shadow' method of using water to spray a 'reverse
to answer questions, including recognising and controlling variables	shadow' of the child's hand onto paper – the water mimicking light.
where necessary.	Children make any changes they want to, to their annotated
	cartoons from Lesson 1 and make a mini-book about what they
	have learned in this unit.