Overview – Year 3 Summer 1 Light

Lesson	Objectives	Scientific inquiry	Equipment list:
1. Light source or light reflector?	• Know where light comes from • Give examples of light reflectors • Describe what happens in the absence of light	Feely bag game Raising questions and carrying out tests, gathering and recording data to find answers to questions	Dark bag, objects
2. Transparent, translucent or opaque?	• Know that some objects reflect almost all the light • Know that some objects allow some light to pass through • Know that some objects reflect very little light	Transparent, translucent or opaque investigation Set up simple practical enquiry, use results to make simple conclusions, identify similarities, differences or changes related to simple scientific ideas and processes.	Torch, wall, objects
3. What makes a good reflector of light?	• Know which types of surfaces reflect light well • Know which type of surfaces do not reflect light well • Know that mirrors are specially designed to reflect as much light as possible	Reflection in different surfaces - investigation Making careful observations, use straightforward scientific evidence to answer	Mirror, paper, card, plastic, foil, metal, glass, cloth, torch, variety of objects

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		questions or to support findings	
4. What is a shadow?	• Know how shadows are formed • Know how to change the size of a shadow • Describe patterns in shadow size	What happens to the size of a shadow when we move the light source? Comparative test, repeats, averages, bar charts, making conclusions based on evidence, evaluation	Torch, card, scissors, metre stick, Sellotape, ice lolly stick, dark room
5. How can we protect our eyes from the sun?	• Know what happens to our eyes in bright light • Know what happens to our pupils in dim light • Describe how we can look safely at the Sun	Investigating our pupils in light and dark Carry out a simple practical procedure, make observations over time, make a conclusion based on evidence	Mirror, eyes, light source, dark room, partner
6. How do telescopes work?	• Know some ways to help us see better • Know how telescopes work • Know how to make a simple telescope	Making a telescope Set up a simple investigation, make observations	Cardboard tube, large magnifying glass, small magnifying glass, scissors, text