

Gawber Primary School

Science Small Steps

PHYSICS	Light and Dark	Year 1
Science Knowledge End Points: - Understand the differences between dark and light - Understand that light comes from a light source - Recognise light sources - Begin to understand shadows and how they are made - Explore reflective surfaces and realise they are not a source of light		
Small Steps / Learning Goals:	- To know that darkness is the absence of light - To compare light and dark places - To know we need light to see - To experience darkness - To identify lights seen when out in the dark - To identify different light sources - To know that light comes from light sources - To recognize similarities and differences between different light sources i.e what makes them work, brightness, how they are used. - To know that some materials reflect light so well it looks like they are a light source - To identify some light reflectors - To know if a material is a light source or if it just reflects the light to make it shine - To predict and test whether an object will be a good reflector of light - To simply say how shadows are made - To explore shadows made by the sun outside - To understand that light cannot pass through some materials - To investigate nocturnal animals. - To understand why they are awake in the night time. - To understand how their bodies have adapted to help them survive at night. - To explore and learn about the Scientist Joseph Swann	
Key Vocabulary:	Light, light source. Dark, reflective, shadows, nocturnal	
Enquiry Skills:	<u>Ideas for different Enquiry Types:</u> Comparative and Fair Tests: Is our sense of smell better when we can't see? Is our hearing better when we can't see? Identify and Classify: Can you organise light sources into man-made and natural groups? Observe over time: How does the colour of a UV bead change over the day? Research: How are nocturnal animals different from other animals?	<u>Working Scientifically</u> - To make shadows outside - To predict and test materials to see how reflective they are - To test and investigate the strength of different lights