



## Year 3 Summer Term 1 - Lights

### Knowledge

**What is needed for us to see?**

**Which surfaces are the best at reflecting light?**

**What are some of the ways we can protect ourselves from the sun?**

**How is a shadow formed?**

**Why do shadows change shape?**

### Skills

LI: to identify sources of light (discuss dark as absence of light).

LI: to observe what happens when light reflects of a surface (mirrors/reflective surfaces).

LI: to understand the different ways we can protect ourselves from the sun.

LI: to group materials into the categories transparent, translucent and opaque using a scientific enquiry (look at objects for shadows then group materials).

LI: To decide on a method to carry out an investigation about shadows.

LI: To use measuring equipment to make observations about the size of shadows.

LI: To draw simple conclusions about our shadow throughout the day (link to space Y5).

**Enquiry approaches: comparative/fair testing, identifying, grouping and classifying, observation over time**

**Vocabulary: light source, dark, reflect, mirror, visible, sun, travel, opaque, transparent, translucent, translucent, block, shadow**

**Key scientist/inventor: James Clerk Maxwell (Visible and Invisible Waves of Light)**