

Light and Shadows



This project teaches children about light and dark. They investigate the phenomena of reflections and shadows, looking for patterns in collected data. The risks associated with the Sun are also explored.

- Light;
- Light sources and reflectors;
- Reflective and non-reflective materials;
- Sun safety and protection;
- Shadows;
- Opaque, transparent and translucent materials;
- Changes in shadows;
- Working scientifically – identifying and classifying, observing changes over time, comparative tests, pattern seeking, re-search

Children will learn that light is a form of energy essential to life on Earth. They will learn that dark is the absence of light and that the Sun is Earth's main source of light and heat. They will identify light sources and reflectors and discuss their differences. They will investigate materials to discover which are reflective and which are non-reflective. They will use their results to identify the qualities of reflective and non-reflective materials and discuss the need for reflective materials in everyday life. They will learn the importance of staying safe in the Sun and investigate sun creams. They will learn about shadows and how they change shape when a light source moves. They will investigate whether transparent, translucent and opaque materials cast shadows and discuss their uses. They will ask scientific questions about light, reflectors and shadows and research to find the answers. They will complete their learning by investigating how shadows change during the day.