



Mossfield Primary School Knowledge Organiser

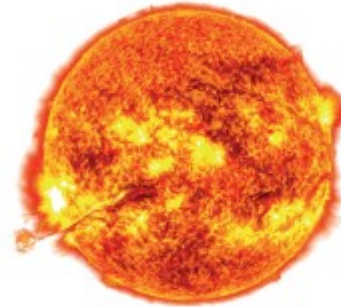


Year 3 — **Light and Shadows** — Recognise that they need light in order to see things and that dark is the absence of light. Recognise that light from the Sun can be dangerous and that there are ways to protect their eyes. Notice that light is reflected from surfaces. Recognise that shadows are formed when the light from a light source is blocked by an opaque object. Find patterns in the way that the size of shadows change.

Light sources



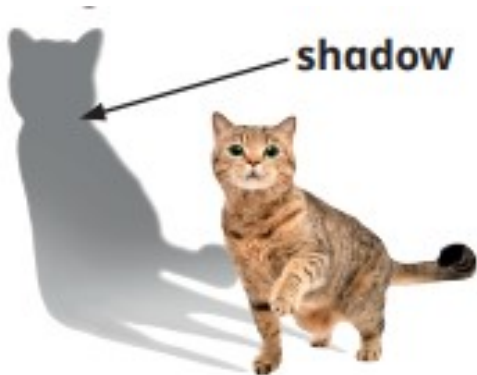
The Sun



How we see



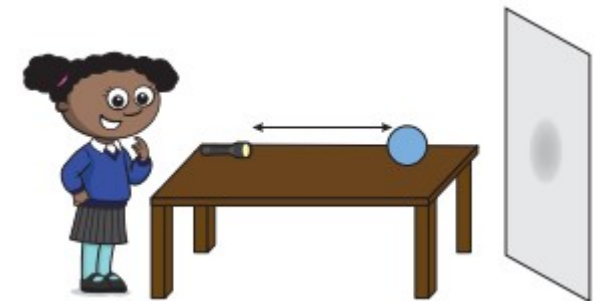
Shadows



Opaque, translucent or transparent?



To plan, investigate and evaluate a shadow experiment



Key Vocabulary

artificial light sources	Artificial light is created by humans. Flashlights, table lamps, neon signs, and televisions are some sources of artificial light.
Light source	An object that makes its own light.
natural light sources	Natural sources of light include the sun, stars, fire, and electricity in storms. There are even some animals and plants that can create their own light, such as fireflies, jellyfish, and mushrooms.
Opaque	Objects that do not let any light pass through them.
protect,	To cover or shield from exposure, injury, damage, or destruction
Reflection	The process where light hits the surface of an object and bounces back into our eyes.
Reflective	Describes something which reflects light well. E.g. hi vis jacket, cats eyes.
Shadow	An area of darkness where light has been blocked.
Sun	The Sun is the star at the center of the solar system. It is a hot ball of gases that gives off great amounts of energy.
Sunglasses	A pair of eyeglasses with dark lenses to protect the eyes from bright sunlight
Translucent	Objects that let some light through, but scatter the light so we can't see through them properly.
Transparent	Objects that let light travel through them easily, meaning that you can see through the object.