

Light

Knowledge Organiser

Overview

Light

We need **light** to be able to see things. Light is **energy** that travels in straight lines from a source. Light sources can be the sun, **a torch** and **a candle**.

Dark

Dark is the **absence** of light.

Reflection

When light bounces off an object it is **reflected**. Smooth, shiny surfaces reflect light well. Rough and uneven surfaces do not reflect light.

Shadows

A shadow is caused when light is blocked by an **opaque** object. A shadow is **bigger** when an object is closer to the light source.

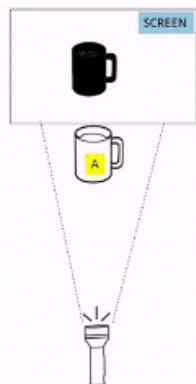
Dangers of the Sun

The sun emits invisible light called **UV** rays. UV rays can damage our eyes. To stay safe, we can **wear a hat**, **wear sun cream** or **glasses**.

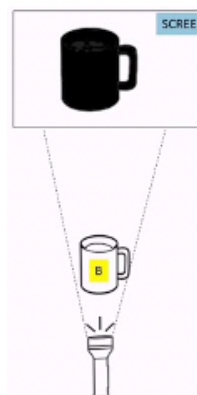
Key Vocabulary

light	A form of energy that travels in a wave from a source.
light source	an object that makes its own light
dark	is the absence of light
reflection	where light bounces off an object and into our eyes
pupil	the black part of the eye that lights light in
retina	part of the back of the eye the absorbs light
shadow	darkness behind an object when it blocks light
opaque	objects that don't allow light to pass through
transparent	objects that let light pass through

How can shadows change?



The shadow will be small if the object is further away from the light source.



The shadow will be larger if the object is closer to the light source.

What is reflection?

The **light** is **reflected** from the object.

Light from the torch hits the object.

How to stay safe in the sun

BEE SAFE IN THE SUN

