

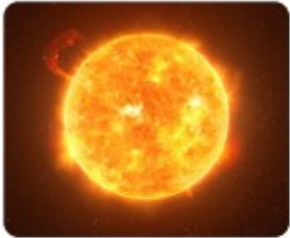
Light and Shadows

Science

Light sources:

A light source is something that produces light.

natural light sources



Sun



firefly

artificial light sources



light bulb



candle

Light reflectors:

A reflector is an object that reflects light from a light source.

natural reflectors



animals' eyes



Moon

artificial reflectors



reflective clothing



bike reflector

Reflective material:



Foil is a reflective material.

Reflective materials reflect light. They are shiny and smooth.

Non-reflective material:



Stone is a non-reflective material.

Non-reflective materials do not reflect light. They are rough and dull.

Sun Safety:

The Sun gives out harmful light rays called ultraviolet (UV) light that damage our skin and eyes. UV light is invisible. There are five ways people can protect themselves from UV light.



apply sun cream



wear loose, close-weave clothing



wear a wide-brimmed hat



wear sunglasses that block UV light



find good quality shade

Shadows:



A shadow is an area of darkness. A shadow is made when an object blocks the passage of light from a light source.

Shadows change shape and size when a light source moves.

Shadows:

Opaque objects, such as wooden or stone blocks, cast dark shadows. Translucent objects, such as frosted glass or tracing paper, cast light, blurry shadows. Transparent objects, such as glass or water, cast very light shadows.



opaque object



translucent object



transparent object

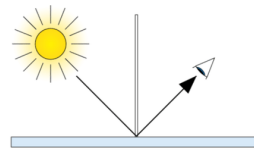
Glossary

Artificial: Made by humans.

Natural: Existing in nature and not made by humans.

Opaque: A material that does not allow light to pass through and cannot be seen through.

Ray: A beam of light.



Reflect: To bounce off a surface.

Translucent: A material that allows some light to pass through and can be seen through, but objects appear blurry.

Transparent: A material that allows light to pass through and can be seen through.

