

# Science Year 3 - Light and Shadows

## Key Learning:

Darkness is caused by the absence of light.

Light can come from a range of different sources.

The shape and size of a shadow can be altered depending on the angle and distance between the light source and object.

Ultra-violet (UV rays) from the Sun can be harmful which is why you must protect yourself appropriately.

Light travels in a straight line.

Natural Light Sources include stars, the Sun (which is the star in our Solar System)

Man-made light sources include lighthouses and torches.

## Key Questions:

What is light and where does it come from?

How are shadows made?

What are the differences between transparent, translucent and opaque objects?

## Key Vocabulary

**Block**—To stop someone or something from moving.

**Light Source**—An object that can emit its own light.

**Opaque**—An object or substance that cannot be seen through by preventing light from passing.

**Reflection**—when a light ray hits a surface and bounces off.

**Rough**—An uneven or irregular surface.

**Shadow**—A dark shape that appears on a surface when someone or something moves between the surface and a source of light.

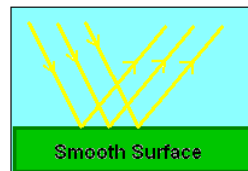
**Smooth**—An even or regular surface free from bumps.

**Translucent**—An object or substance which lets some light to pass through.

**Transparent**—An object or substance which allows light to pass through so that objects behind can be distinctly seen.

**UV Light**—A form of radiation which is not visible to the human eye given off by certain objects.

## Reflection



## Shadow

