

# St. Mary's Catholic Primary School



**Subject: Science**

Topic: Light

Year: 3

Strand: Biology

## What should I already know?

- There is light and dark
- Lights are used in the house
- We need light to see things

## What am I going to learn?

- Dark is the absence of light.
- Light is reflected from surfaces.
- Light travels in a straight line.
- When light hits an object, it is reflected. If the reflected light hits our eyes we can see the object.
- Mirrors reflect light well and create a clear image.
- Images in mirrors appear to be reversed.
- The pupils control the amount of light entering the eyes.
- A shadow is caused when light is blocked by an opaque object.
- The position of the light source changes the size and location of the shadow.

## Vocabulary

**Glare:** is difficulty of seeing in the presence of bright light such as direct or reflected sunlight or artificial light such as car headlamps at night.

**Illuminate:** to supply or brighten with light; light up.

**Light Beam:** a light beam or beam of light is a directional projection of light energy radiating from a light source.

**Light source:** a light source is anything that makes light, whether natural and artificial.

**Opaque:** an object not able to be seen through; not transparent.

**Reflect:** (of a surface or body) throw back (heat, light, or sound) without absorbing it

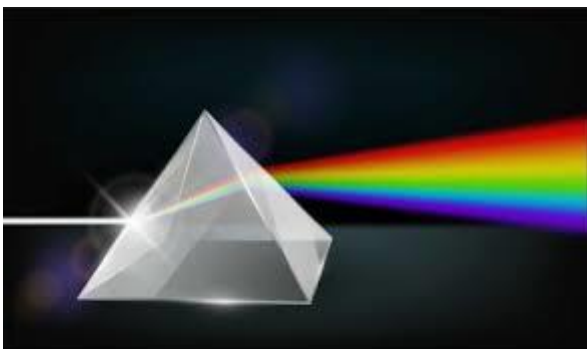
**Retina:** a layer at the back of the eyeball that contains cells sensitive to light, which trigger nerve impulses that pass via the optic nerve to the brain, where a visual image is formed

**Spectrum:** a band of colours, as seen in a rainbow, produced by separation of the components of light

**Translucent:** allowing light, but not detailed shapes, to pass through; semi-transparent

**Transparent:** allowing light to pass through so that objects behind can be distinctly seen

**UV light: ultraviolet light** is a form of **radiation** which is not visible to the human eye



## Helpful resources

<https://www.bbc.co.uk/bitesize/topics/zbssgk7>

<http://resources.hwb.wales.gov.uk/VTC/20050520/Science/Keystage2/Physicalprocess/Shadows/Introduction/default.htm>