



“Whatever you do, work at it with all your heart”

Colossians 3:23



Light and Shadow

Year 3
Autumn 2

Key Knowledge:

To know that:

- ⇒ **Light is needed in order to see things and dark is the absence of light.**
- ⇒ Light is reflected from surfaces in different ways.
- ⇒ Light from the sun can be dangerous
- ⇒ Eyes should be protected from the sun with sunglasses, hats etc.
- ⇒ Opaque means no light can be transmitted
- ⇒ Translucent means some light can be transmitted
- ⇒ Transparent means light can be transmitted, allowing objects behind to be seen
- ⇒ **Shadows are caused when light is blocked by an opaque object**
- ⇒ The size of shadows depends on how close the light source is to a subject.
- ⇒ The size of shadows depends on the angle of the light source.
- ⇒ **Light travels in straight lines**
- ⇒ Light is a form of energy
- ⇒ Sun is a light source but the Moon is not (it reflects the light from the Sun).



Key Vocabulary:

Light (something that makes things visible)

Dark (the absence of light)

Shadow (a dark image cast on a surface by an object blocking the source of light)

Light source (e.g. the sun, a bulb, a torch, a candle)

Reflection (heat, light or image that bounces off an object or surface)

Translucent (letting only some light through)

Opaque (not letting any light pass through)

Transparent (letting light through giving a clear view of the other side)

Mirror (a material which reflects a clear image)

