



# Light and Shadow

## KNOWLEDGE ORGANISER




ESSENTIAL LIGHT AND SHADOW VOCABULARY	
light	A form of energy that travels from its source in a wave.
light source	An object that creates light.
reflect	When light bounces off a surface and changes the direction of a ray of light
mirror	A mirror reflects light so we can see the reflection.
block	Something that will stop light travelling.
dangerous	Something which will cause harm or damage something.
shadow	An area of darkness where light is blocked.
reflective	A material which reflects light well.
protect eyes	To shield eyes from harm or danger.
direct	With nothing or no one in between.
sunglasses	Glasses tinted to protect the eyes from the sun.
pattern	A regular order in which a series of things happen.
size	The overall measurements of something.
change	To make or become different.

### Sun safety

We need to protect ourselves from the Sun's rays. We can do this by:

- Using sunscreen.
- Wearing a wide brim hat.
- Wearing sunglasses.
- Drinking water.
- Wearing loose fitting clothing.



### Facts about Light

- We need light to see.
- Darkness is caused by the absence of light.
- It travels in a straight line.
- The moon is not a light source as it reflects light from the Sun.

### How shadows change

The closer an object is to the light source the bigger the shadow.

Shadows outside change direction and shape by the position the Sun is in the sky.

MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY	
light	It is <b>light</b> during the daytime.
dark	It is <b>dark</b> during night time.

### Shadows

Shadows are always the same shape as the object that has cast them because they are formed when an opaque object blocks the light travelling from the light source. They can be stretched or shortened depending on the angle of the light source. A shadow is larger when the object is closer to the light source as more of the light is blocked.

