

KS2 Science KCV – Light

Key Knowledge

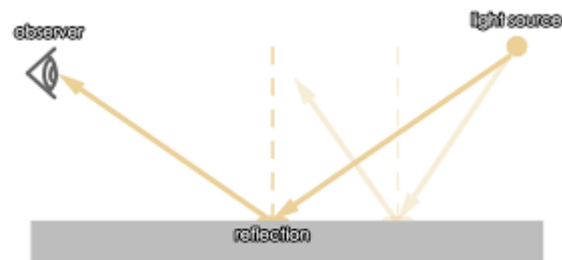
- recognise that they need light in order to see things and that dark is the absence of light
- notice that light is reflected from surfaces
- recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- recognise that shadows are formed when the light from a light source is blocked by a solid object
- find patterns in the way that the size of shadows change.

Detail

Explore the levels of light needed to see details.
 Investigate surfaces that reflect or absorb light
 Consider the impact and dangers of looking at bright lights.
 Explore the materials that make shadows.
 Explore the factors that alter shadow size and position.

Key concept questions

- What is light and dark?
- How do we see in the dark?
- How do we use light sources safely?
- Why do we see a reflection in a mirror?
- What makes a shadow?
- How and why do shadows change?



Key vocabulary

Emits	To emit a sound or light means to produce it
Opaque	If an object is opaque, you cannot see through it.
Translucent	If a material is translucent, some light can pass through it.
Transparent	If an object is transparent, you can see through it.
Reflects	Sent back from the surface and does not pass through.
Shadows	A dark shape on a surface when something stands between a light and the surface.

High Frequency Vocabulary

angle	the direction from which you look at something
bright	a colour that is strong and noticeable, and not dark
chemical reactions	a process that involves changes in the structure of something
dark	the absence of light
dim	light that is not bright
electricity	a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for machines
light	a brightness that lets you see things.
mirror	a flat piece of glass which reflects light , so that when you look at it you can see yourself reflected in it
product	something that is produced
source	where something comes from
sunglasses	glasses with dark lenses which you wear to protect your eyes from bright sunlight
surface	the flat top part of something or the outside of it
torches	a small electric light which is powered by batteries and which you can carry