

Year 3 – Summer 2 – Light

Key Words	Definitions
absorb	To take something in or soak up.
artificial	Something made by people.
melt	To turn something solid into something soft or liquid, usually by heating.
natural	Something found in nature and not involving anything made or done by people.
translucent	If an object or a substance is translucent, it is almost transparent, allowing some light through it in an attractive way.
transmit	Passing something from one to another, teachers transmit knowledge to children.
wax	A solid substance containing a lot of fat that becomes soft and melts when warm.

Where does light come from?

We need light to see. Light can come from many different sources, such as the Sun, stars, torches, lamps and candles. Some sources of light are so powerful that they can damage our eyes if we directly look at it. That's why we often need sunglasses. Some animals are sources of light such as fireflies and glow worms. A chemical reaction happens inside fireflies, and this helps them to light up!

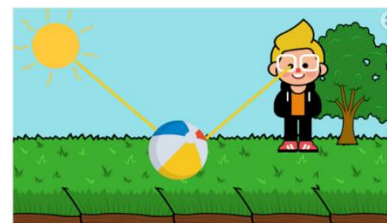
How does light travel?

Light travels faster than anything in the universe and it always travels in straight lines. When light hits an object, it is reflected by that object and travels in straight lines to our eyes. Our eyes take in some of this light and information is sent to the brain. This is how we see the object.



How do we see?

Light travels from the light source to the object where it is reflected into our eyes so we can see. Some objects such as shiny metal objects reflect light better than dark materials which absorb some of the light.



Light rays hit the ball and then reflect into our eyes.

How is a shadow formed?

A shadow is created when an opaque material or object is placed in front of a light source and prevents the light from passing through. It creates a dark area or shape on a surface as a result. A shadow is a dark shape made when light is stopped or blocked by an object or a person.

Go to the BBC Website to find out more:



Important figures

Daedalus

In Greek mythology, Daedalus was a craftsman who made wings out of wax and bird feathers so that his son and him could escape from King Minos who was keeping them prisoner.



Icarus

In Greek mythology, Icarus was the son of Daedalus. His father warned him not to fly too close to the sun but Icarus defied him, the wax from his wings melted and he fell into the sea.



Monday	Tuesday	Wednesday	Thursday	Friday
HWK – Maths Book	HWK – Reading	HWK – Grammar Book	HWK – Reading	HWK – Spelling

Key Dates:

- Empathy Day
- Healthy Relationship Workshops
- Transition Day

KEY VOCABULARY

light

a type of **energy that makes it possible for us to see** and helps to support life on earth

dark

the **absence of light** (it is hard for us to see in the dark)

light source

something that makes light; these can be natural or artificial (made by people)

transparent

a property of a material that **allows light to travel through it** (we can see through transparent things)

opaque

a property of a material that **does not allow light through it** (we cannot see through opaque things)

reflect

when **light bounces back** from a surface

shadow

a **dark area** created by an object blocking a light source

light source



short shadow
source of light (the Sun) is nearly overhead

light source



long shadow
source of light (the Sun) is at large angle

our shadows change as the sun moves across the sky; when the sun is high in the sky our shadows are short, and when the sun is lower in the sky our shadows are longer

concave



when a mirror is bent inwards, creating a hollow – the image looks bigger

convex

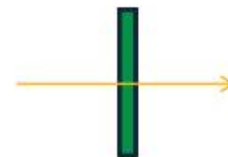


When a mirror is bent outwards, creating an arch– the image looks smaller



the sun is a natural light source and is essential for life on Earth

transparent



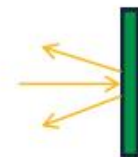
light can travel through an object or material

opaque



light cannot travel through an object or material

reflect



light bounces back from an object or material