# Light - Year 3 - Unit 1

light source

candles are light sources

Some objects. like the

sun, light bulbs and

or sources of light.



# Subject Specific Vocabulary

# IHH

## comparative & fair testing

We see objects because **Comparative testing** means testing objects to rank our eyes can sense light. them. We will test and compare materials to find the most reflective. Fair tests are enquiries that observe Dark is the absence of or measure the impact of changing one variable light. We cannot see when all others are kept the same. We will carry out anything in complete darkness. fair tests to explore how shadows can be changed.

# pattern seeking

We seek patterns by looking for links between of variables. We will seek patterns between change to a light source or an object and the shadows made.

# Working Scientifically

Asking scientific questions Planning an enquiry **Observing** closely Taking measurements Gathering and recording results

**Presenting** results **Interpreting** results Concluding (drawing conclusions) Predicting Evaluating an enquiry

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The light from the sun can Natural light sources damage our eves. We should not look directly at Lamps and torches the sun and can protect our eyes by wearing

light

sunglasses or sun hats in bright light.



### Things you learnt in previous topics

In Year 1 you identified, named, drew and labelled the basic parts of the human body and were able to say which part of the body is associated with each sense. You described the simple physical properties of a variety of everyday materials for example plastic is see-through and waterproof.

provide artificial light.

# include the sun and stars.

### opaque If a material is

opaque, no light is able to pass through it. It is not able to be seen through.

# transparent

Transparent materials allow liaht to pass through. They are see-through.

# translucent

Translucent materials are not completely see-through but clear enough to allow rays of light to pass through.

# reflect

Reflect means to throw back light without absorbing it. Light is **reflected** from surfaces.



Shadows are formed on a surface when an opaque or translucent object is between a light source and the surface and blocks the light.



Objects are easier to see when there is less light if they are reflective.



The size of the shadow depends on the position of the source. object and surface.



## How this connects with future learning



In Year 6 you will recognise that light appears to travel in straight lines and use this idea to explain that objects are seen because they give out or reflect light into the eve. You will explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. You will use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.