



Light and dark

To explain that in order to see some things we need light to reflect.

Light can come from different sources, and without light there is darkness.



Light

Big Question

Which pair of sunglasses are best for our eyes, why?

Reflective surfaces

Which colours or materials are the best when making a reflective bag, which would keep children safer when coming to school in the dark?

Explore Transparent, translucent and opaque. To know that objects can be classified as transparent, translucent or opaque. Materials can have different uses according to how they let light through. How can a data logger be used to prove which materials block the most light?

Making Shadows

To know that a shadow can be made by blocking light with an opaque object. To find out how the shape of an object affects the shape of its shadow.

How do mirrors work? Explore and observe closely what happens when light is reflected in a mirror.

Can you write your name so it can be read in a mirror?

Danger from the sun
To recognise the dangers of looking directly at the sun. To know how we can protect our eyes from the sun. *Investigation what are sunglasses for.*

How do shadows change shape?

Look for a pattern when a torch is moved closer and closer to an object. Try to complete the sentences below:

The closer the torch the _____ the shadow.
The further away the torch the _____ the shadow.

Assessment Question / Task

Make your own quiz about the things you have learnt about light.

These words must be used somewhere in your quiz:

Light source, image reflect (or reflection or reflected)

translucent and shadow.

Key Vocabulary

I will use... Light source, darkness, image, mirror, reflect, opaque, translucent, transparent, shadow, labelled diagram, data logger, fair test and absence.

What to revisit?

Using observations and ideas to explain the answers to questions.

Everyday materials (Year 1)

Vertical Threads

Exploration, reflection