



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.



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?



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.



Light

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?



Big Question

What is the difference between
light and dark?

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 af-
fects the shape of its shadow.



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, trans-
lucent, transparent, shadow, labelled
diagram, data logger, fair test.

What to revisit?

Using observations and ideas to
explain the answers to questions.

Vertical Threads

Exploration, reflection