



Prior learning to reactivate

This is the first time this subject is taught within the Primary Curriculum.

- Transparent means you can see through it (Year 1)
- Opaque means it's not clear and you can't see through it (Year 1)
- Sight is one of the 5 senses

Key learning

Some objects produce their own light and others don't e.g the moon.

Light is needed in order to see things and dark is the absence of light.

When light passes through a different object and its direction changes.

Light is reflected from surfaces.

Shadows are formed when light from a light source is blocked by an opaque object.

Light from the sun can be dangerous and that there are ways to protect our eyes.

Key vocabulary

Opaque	An object which does not allow light to pass through it (e.g. wood).
Translucent	An object which allows some light to pass through it. It may be possible to see some unclear images through the object (e.g. tissue paper).
Transparent	An object which allows light to pass through it so that objects behind it can be easily seen (e.g. glass)
Shadow	A dark area or shape caused by the blockage of light.
Reflection	When a light hits a surface and 'bounces' off.
Light Source	An object which generates its own light.
Absence	The state of being away.

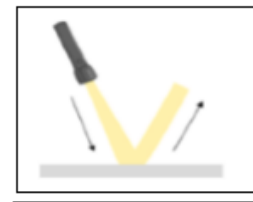
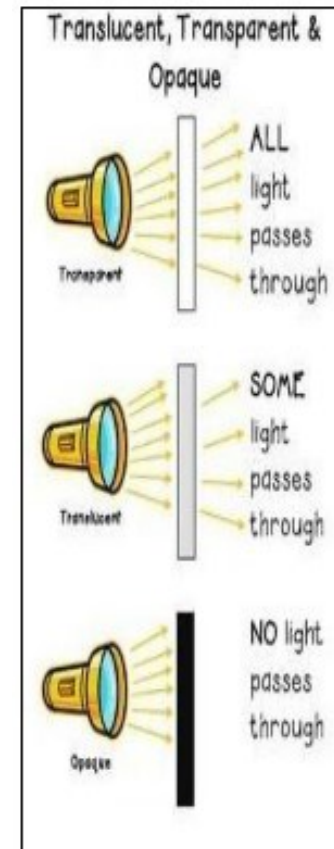
SCIENTIFIC SKILLS

By the end of the year, children should be able to...

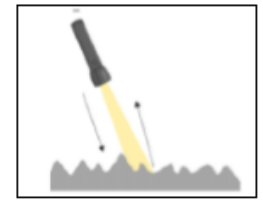
- Ask their own questions relating to the topic
- Make predictions about the outcomes of investigations
- Set up simple practical investigations
- Be able to identify simple ways in which a fair test can be created
- Make simple observations, including through the use of a range of recording/measurement equipment
- Gather and record data
- Present data in a variety of ways, including diagrams, charts, tables, and graphs
- Draw simple conclusions on results and link back to the theory discussed
- Suggest improvements for further investigations

Opportunities for scientific enquiry within the unit:

- Looking for patterns in the size and shape of shadows



Left: Light travelling and reflecting off a smooth surface



Right: Light travelling and reflecting off a rough surface