



Year 1 - Science Knowledge Organiser: Materials



What I already know...

In EYFS we explored natural materials, indoors and outside and talked about the differences in materials they notice.

We explored our outdoor environment found out about the effect of the changing seasons on the natural world around us.

What I will learn...

- In Autumn the weather begins to get colder.
- The amount of daylight becomes less so that day-times feel shorter and night times feel longer.
- The leaves start to change colour and fall from the trees.
- The Autumn months are September, October and November.
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.
- Distinguish between an object and the material from which it is made.
- To describe simple physical properties that materials and objects can have: opaque, transparent, translucent.

Key Vocabulary

light source	Something that gives out light.
opaque	A material that does not let light through and you cannot see through it.
translucent	A material that lets some light through but you cannot see through it clearly.
transparent	A material that lets light through and you can see things very clearly through it.
shadow	The dark shape that an object makes on a surface when light is blocked by the object that is between the light source and the surface .
material	What an object is made out of.
properties	How different materials behave.

Making a difference at The Merton and beyond

Many celebrations during the autumn and winter months have the theme of light; brightening dark days, and bringing light into life. As we explore some of these in RE, in this Science topic we will make connections with the scientific properties of light and dark. Children will learn to recognise light sources and visit the library where we will turn off lights and block any light to try and create an experience which resembles complete darkness. We will create shadow puppets to help us to understanding how shadows are made as well using our school grounds to find and make shadow shapes. Through our experiences, exploration and investigations we will understand simple physical properties of everyday materials and carry out tests and experiments to help Mr and Mrs Grinling from our class text *The Lighthouse Keeper's Lunch* such as which material will make the best window for the lighthouse and learn to use scientific properties opaque, transparent and opaque.

How to be a Scientist...

Disciplinary Knowledge: Science skills I will learn:

- To identify, classify and describe objects according to their properties.
- To observe light sources and know how they can be affected by different objects.
- To observe seasonal changes and identify which season we are in.

