



Year 2 - Autumn 1 - Science Knowledge Organiser

What I already know...

In Year 1 the children look at the properties of materials and they identify how objects can be transparent translucent and opaque. As the children progress into Year 2 they begin to deepen their understanding of materials and begin to discover how objects can be man made or natural and much more!

What I will learn...

Uses of everyday materials

- Identify and describe some common materials, then think of similar materials that could be grouped in the same ways.
- What are natural and man-made materials and describe them, then continue to find out about, sort and describe a range of materials .
- Children will squash, bend, twist and stretch a range of materials, then predict how other materials might behave. They will also conduct investigations, recording their findings.
- Look at a variety of objects made using metal or plastic and consider why each material has been used. They will go on to sort and describe a range of plastic and metal objects .
- Learn about how trees are turned into materials we use. They will then either describe how paper is made in their own words, or make and test paper models .

Key Vocabulary

Materials	What objects are made from.
Suitability	Having the properties which are right for a specific purpose.
Properties	What a material is like and how it behaves (soft, stretch, waterproof etc)



Making a difference at The

They will begin by thinking about objects and materials, distinguishing between the two- a materials hunt around the school grounds will help aid their understanding. The children's knowledge will be further deepened by investigating and testing the properties of materials and their suitability for different purposes eg. for protecting Humpty Dumpty from his fall. Links this term will be made to our learning in History and the suitability of materials in Houses in the past and present.

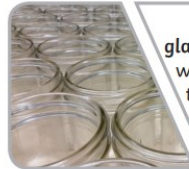
Making a difference at home

- Do you recycle at home? Could you recognise the different objects and name the material they are made of? For example: a bottle is made of plastic
- Ever thought about how some materials are man made and others are made by nature? Can you identify any of these in your home or local area?

Properties of Materials



wood:
hard, stiff, strong, opaque, can be carved into any shape.



glass:
waterproof, transparent, hard, smooth.



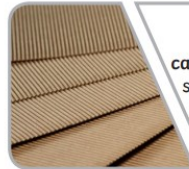
plastic:
waterproof, strong, can be made to be flexible or stiff, smooth or rough.



metal:
strong, hard, easy to wash.



paper:
lightweight, flexible.



cardboard:
strong, light, stiff.



fabric:
soft, flexible, hard-wearing, can be stretchy, warm, absorbent.



rubber:
hard-wearing, elastic, flexible, strong.