Uses of everyday materials

Year Group: 2 | **Subject Focus: Science** | **Term: Autumn 2**

Key facts

- Materials can have a number of different properties. They are chosen for various uses based on their properties.
- Materials can be hard or soft, shiny or dull, rough or smooth, flexible (bendy) or rigid (not bendy), waterproof or permeable and opaque, translucent or transparent.

Key people

William Addis – Toothbrush inventor
Charles Mackintosh – Invented the waterproof coat, Mackintosh raincoat named after him
John MacAdam-Roads Chester – invented earmuffs.

Exciting books/ web links:

Centrally Heated Knickers – Michael Rosen (poetry book)

Little Lumpty – Miko Imai

Santa is Coming to Leeds – Steve Smallman

Aliens Love Underpants – Claire Freedman

The Three Little Wolves and the Big Bad Pig – Eugene Trivisas



Our Learning Journey:

We Are Learning To…

Investigate what we already know about every day materials- linking back to our Year 1 learning.

Identify materials of different objects.

Investigate how solid objects can be altered to change their suitability for a purpose.

Identify the use of everyday materials and their suitability.

Our Science Skills:
In this unit we will be:

- Questioning
- Predicting
- Testing
- Observing and Measuring
- Recording Data
- Interpreting and Communicating Results
- Evaluating
- Identifying, Classifying and Grouping
- Researching Using Secondary Sources

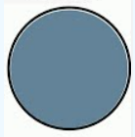
Key words:

opaque	Not letting light pass through. For example, if transparent materials let light through (such as windows), opaque surfaces do not (for example curtains).
transparent	Letting light pass through and giving a clear view of objects at the other side (for example, windows).
translucent	Light is allowed to pass through, but you cannot see clearly through the object.
reflective	Light bounces from an object.
non-reflective	Light does not bounce from an object.
rigid	Unable to bend or forced out of shape.
flexible	Bending easily without breaking.
stretch	Make something longer or wider.
bend	Change something that is straight into a curve.
twist	Holding an object and turning your hands in opposite directions.



Transparent **Opaque**





Parents as partners:

Could your child investigate what material their toys/clothes are made out of?
What is their favourite material? What properties does it have?
What different materials can you find in your home?
Imagine a world without wood/metal/plastic, could your child draw what their life may look like?