Leamington Primary Science Knowledge Organiser Year 1

Everyday Materials - *What material is best to make a cloak?*

What I should already know

The names of some everyday materials

Interesting Facts

A spider's web is, weight-for-weight, 10 times as strong as steel, and far more elastic.

What I will learn

What are materials?
Materials are the substances that things are made from. We use lots of different materials every day eg. metal, plastic, wood and glass.

Metal:
- Metals are made from rocks
- Metals include aluminium, iron and steel

Wood:
- Wood is made from trees
- Woods include oak, pine and ash

Glass:
- Glass is made from fine sand
- Glass is used for windows and glasses

Plastic:
- Plastics can be made from lots of different materials

Are all materials the same?
Every material has different properties, and this is used to work out how effective a material can be, dependent on its intended use.

Where do materials come from?
Materials can be natural or man-made.

Important words to help me. (vocabulary)

Flexible	Able to bend
Hard	Not easily broken
Man-made materials	These are natural materials which are changed by humans through chemical processes.
Materials	The matter from which an object is or can be made.
Natural materials	These are materials that are found naturally in the world around us. They may be grown, dug out from the ground or taken from living things.
Soft	Not firm to touch
Transparent	Can be seen through
Waterproof	Repels water and liquids

Useful Diagram





Ideas for Scientific Enquiry

*Explore the types of materials around our classroom.

*Explain why different materials are used for different purposes based on their properties.

*Compare different types of materials - what is similar and what is different using scientific vocabulary.

*Sort different types of materials based on their properties or how it is made.