



Knowledge Organiser	Subject: Science	Topic: Everyday Materials	Year: 1
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Key Knowledge

- Distinguish between an object and the material from which it is made.
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.
- Describe the simple physical properties of a variety of everyday materials.
- Compare and group together a variety of everyday materials on the basis of their simple physical properties.

Common misconceptions

- Only fabrics are materials.
- Only building materials are materials.
- Only writing materials are materials.
- The word 'rock' describes an object rather than a material.
- 'Solid' is another word for hard.

Key Learning

- All objects are made of one or more materials.
- Some objects can be made from different materials – for example, plastic, metal or wooden spoons.
- Materials can be described by their properties – for example, shiny, stretchy, rough.
- Some materials (for example, plastic) can be in different forms with very different properties.

Disciplinary Skills

- Classify objects made of one material in different ways – for example, a group of objects made of metal.
- Classify in different ways one type of object made from a range of materials - for example, a collection of spoons made of different materials.
- Classify materials based on their properties.
- Test the properties of objects – for example, strength of party hats made of different papers, stiffness of paper plates, waterproofness of shelters.
- Sort objects and materials using a range of properties.
- Choose an appropriate method for testing an object for a particular property.

Key Concepts

Understanding Objects and Materials:

Students will learn to distinguish between objects and the materials they are made from, developing a foundational awareness of how materials are used to create everyday items.

Identifying and Naming Materials:

Students will identify and name a variety of common materials, such as wood, plastic, glass, metal, water, and rock, building their vocabulary and recognition skills related to materials.

Exploring and Comparing Properties:

Students will describe and compare the simple physical properties of everyday materials, grouping them based on similarities and differences to understand their uses and characteristics.

The Big Question

What materials are around me?

Key Vocabulary	
Hard	Hard things are less likely to be dented or scratched.
Soft	Soft things are easy to cut, fold or change the shape of.
Shiny	Shiny things are smooth and reflect light.
Dull	Dull things are not shiny and don't reflect light well.
Stretchy	If something is stretchy, it can be pulled into a longer shape.
Rough/Smooth	Rough things feel and look uneven. Smooth things feel and look even.

The glass window is **transparent**.



The wall is **opaque**.

This sponge can **absorb** water.



These boots are **waterproof**.



Linking Thinking Across Our Learning Journey						
Early Years	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
Nursery - Materials, including changing materials Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about the differences between materials and changes they notice.	Everyday Materials	Uses of everyday materials Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.			Properties and changes of materials Compare and group together everyday materials on the basis of their properties, including hardness, solubility, transparency, conductivity and response to magnets. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.	