

Knowledge Organiser Everyday Materials Year 1/2

What I have already learnt ELG's

Understanding the Natural World

- I have explored the natural world around me, making observations and drawing pictures of animals and plants;
- I have learnt about some similarities and differences between the natural world around me and contrasting environments, drawing on my experiences and what has been read in class;
- I understand some important processes and changes in the natural world around me, including the seasons and changing states of matter.

Recall and Remember

Can you answer these 6 questions in 6 minutes?

- Can you name 6 different materials?
- Can you name 5 different words to describe materials?
- Can you name some man-made and some natural materials?
- Can you name 3 objects made of plastic?
- Can you name 3 objects made of wood?
- Can you name 3 objects made of glass?

What I will have learnt by the end of my Key Stage

- I will know how to identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- I will know how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
- I will ask and answer questions using what I have learnt and will be able to record my observations

Key skills I will learn/use

Working Scientifically

Notice- I will be able to ask simple questions and recognise that they can be answered in different ways

Observe- I will be able to observe closely, and use simple equipment

Remember- I be able to remember how to perform simple tests and make them fair

Recognise- I will be able to identify and classify a number of everyday materials

Notice- I will be able to use my observations and ideas to suggest answers to questions

Record- I will be able to gather and record data to help answer questions

Key Concepts/Strands

- Biology
- Chemistry
- Physics
- Scientific Enquiry
- Science for the future
- Vocabulary

My skills and knowledge that I may use from other subjects

Literacy- I can use my literacy knowledge to write about my findings

Mathematics- I can use my measuring skills to carry out simple tests and record my findings using diagrams and graphs

DT- I can use my skills learnt during DT lessons such as techniques to attach different materials to each other and evaluate which materials are best for a given purpose

Opportunities for teaching Diversity, Equality (including protected characteristics) and expanding Cultural Capital

Recycling Opportunities

Get involved in local opportunities to explore recycling activities

How to save the planet!

How to save the planet: a guide for kids! - National Geographic Kids (natgeokids.com)

Get to meet a scientist! Explore people who use science in their jobs.

- I'm a Scientist, Get me out of here! - A super-curricular science outreach education & engagement activity (imascientist.org.uk)
- Science for Everyone (science4everyone.org)

Key Knowledge

- Objects have different **names** and can be made of different **materials** such as wood, plastic, glass, metal, water, and rock
- Everyday materials can be **described** using simple physical properties such as smooth, bendy, not bendy, waterproof, not waterproof, absorbent, not absorbent, transparent, opaque, hard, soft, stretchy, shiny, dull, rough
- Everyday Materials can be **compared and grouped** together based on their simple physical properties
- Materials can be natural or man-made

What I will have learnt by the end of this unit

I will be able to distinguish between an object and the material from which it is made

I will be able to identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock

I will be able to describe the simple physical properties of a variety of everyday materials

I will be able to compare and group together a variety of everyday materials on the basis of their simple physical properties.

I will be able to answer simple questions using scientific vocabulary

I will have developed skills to perform simple tests

I will be able to use what I have observed to answer questions

I will be able to use simple graphs when I am recording my work

What will I know by the end of the unit?


Objects are things that you can touch or see.
Objects are made from materials.

Which materials are some objects made from?	 glass metal rock plastic wood
	 water brick paper fabrics elastic foil

What words can I use to describe materials?	 transparent waterproof opaque stiff
	 soft shiny rough absorbent bright
	 bendy stretchy hard smooth dull

Which materials are natural and which are man-made?

- Some materials are **natural** while others are **man-made**.
- Natural materials** are materials which are found in nature.
- Man-made materials** are materials which have been produced by humans.

Natural Materials	
 chalk sand oil leather iron	
 gold cotton coal wood	
Man-made Materials	
 concrete glass paper rubber	
 steel plastic polyester	

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Key Vocabulary

Key Vocabulary	
smooth	Smooth objects have no lumps or bumps.
bendy	Bendy things can be bent easily into a curved or folded shape.
not bendy	If something is not bendy , it can't be bent easily into a curved or folded shape.
waterproof	If something is waterproof , it keeps water out. It keeps things dry.
not waterproof	Not waterproof materials let water in.
absorbent	If something is absorbent , it soaks liquid up.
not absorbent	If something is not absorbent , it does not soak up liquid.
transparent	Transparent objects can be seen through.
opaque	Opaque objects can't be seen through.

Key Vocabulary

object	A thing that can be used. For example a door, chair, car, table are all objects .
material	Materials are what an object is made from.
hard	Not easily broken or bent.
soft	If something is soft , it is easy to cut, fold or change the shape of.
stretchy	Can be pulled to make it longer or wider without breaking.
shiny	Reflects light easily.
dull	Doesn't reflect light. Doesn't look bright or shiny .
rough	If something is rough , it feels and looks uneven or bumpy.

Materials



plastic



wood



metal



water



glass



brick



fabric



paper



stone

Key Knowledge

Key Knowledge

Properties of Materials



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



glass:
waterproof,
transparent,
hard, smooth.



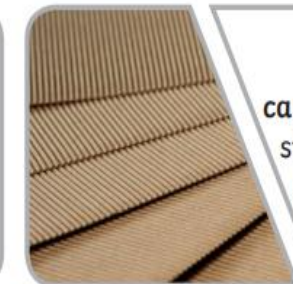
plastic:
waterproof,
strong, can
be made to be
flexible or stiff,
smooth or rough.



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.



plastic toys



wooden furniture



metal tools



drinking water



glass window