

Science Knowledge Organiser: Everyday Materials – Let's Build!

Key Vocabulary

absorbent	If something is absorbent , it soaks liquid up
bendy	Bendy things can be bent easily into a curved or folded shape.
dull	Doesn't reflect light. Doesn't look bright or shiny.
hard	Not easily broken or bent.
material	Materials are what an object is made from
not absorbent	If something is not absorbent , it does not soak up liquid.
not bendy	If something is not bendy , it can't be bent easily into a curved or folded shape.
not waterproof	Not waterproof materials let water in.
object	A thing that can be used. For example a door, chair, car, table are all objects.
opaque	Opaque objects can't be seen through.
rigid	Not able to be bent or moved.
rough	If something is rough , it feels and looks uneven or bumpy.
shiny	Reflects light easily.
smooth	Smooth objects have no lumps or bumps.
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.
strong	Not easily broken.
transparent	Transparent objects can be seen through
waterproof	If something is waterproof , it keeps water out. It keeps things dry.

Science Skills

- Sorting and Classifying
- Observation
- Research
- Pattern Seeking



Knowledge Outcomes:

Everyday Materials

- I can distinguish between an object and the material from which it is made
- I can identify and name a variety of everyday materials, including wood, plastic, glass, metal
- I can describe the simple physical properties of a variety of everyday materials
- I can compare and group together a variety of everyday materials on the basis of their simple physical properties

Working Scientifically

- I can ask simple questions and recognising that they can be answered in different ways.
- I can observe closely, using simple equipment.
- I can perform simple tests.
- I can identify and classify.
- I can use observations and ideas to suggest answers to questions.
- I can gather and record data to help in answering questions.



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Different types of materials

wood



cardboard



metal



fabric



plastic



wool



glass



foil



brick



rubber



rock



clay



paper



water



Properties of materials

Material

Properties

Wood	opaque, hard and strong
Glass	transparent and waterproof
Metal	shiny, hard, smooth and strong
Plastic	waterproof and transparent
Fabric	stretchy and opaque
Bricks	rough and rigid
Leather	bendy and opaque
Paper	flexible and thin

How can a material change shape?

The shape of some materials can be changed when they are stretched, twisted, bent or squashed.



Communication and Language: Listening, Attention and Understanding.

Learn new vocabulary
Use new vocabulary through the day
Ask questions to find out more and to check they understand what has been said to them.
Articulate their ideas and thoughts in well-formed sentences.
Connect one idea or action to another using a range of connectives.
Describe events in some detail
Use talk to help work out problems and organise thinking and activities explain why they might happen.

EYFS LINKS

Expressive Arts and Design: Creating with materials.

Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

Understanding the World:: The Natural World

Explore the natural world around them, making observations and drawing pictures.
Know some similarities and differences between the natural world around them.
Understand some important processes and changes in the natural world around them, including changing states of matter.

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