

Science Knowledge Organiser: Everyday Materials – Marvellous Materials

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.

Knowledge Outcomes:

- I understand some materials may be suitable for specific tasks whilst others are not, using the language of useful properties
- I can verbally plan how to test the materials in an investigation and make simple notes about those thoughts
- I can investigate the suitability of materials physical properties for mending an umbrella.
- I can articulate scientific reasoning for selecting and investigating certain materials
- I Understand that water is a material and ice is water in a different state
- I can observe and record the changes to a block of ice
- I understand that what happens to particles in ice when it starts to melt and turn to water
- I can consider, predict and then explore ways of speeding up or slowing down the melting of ice
- I can explore the properties of water by looking at puddles in the playground
- I can make predictions, observe changes and exploring own ways of recording puddle changes
- I can use scientific vocabulary such as water, bigger, smaller, drying up, rain, changing, evaporation

Science Skills

- Sorting and Classifying
- Observation
- Research
- Pattern Seeking




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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.




bend



squash



stretch



twist

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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