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.

Science Skills

- Sorting and Classifying
- Observation
- Research
- Pattern Seeking



Knowledge Outcomes:

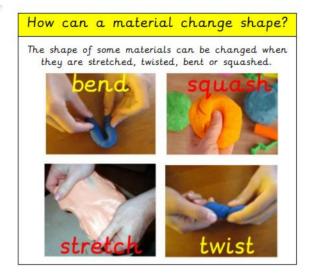
- I understand some materials may be suitable for specific tasks whilst others are not, using the language of useful properties
- I can verbally plan how to test the materials in an investigation and make simple notes about those thoughts
- I can investigate the suitability of materials physical properties 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 playaround
- 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



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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	



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 wellformed 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.

