Subject	Term	Unit		Intent		
Science- Year 1	Autumn 1	Everyday Materials		Interweaving knowledge and enquiry to discover the world		
		Waterials		around us.		
Prior knowledge				National Curriculum		
	ow about sin		•	Distinguish between an object		
and differences in relation to				and the material from which it is		
places, objects, materials and living things.				made Identify and name a variety of		
	k about the features of their			everyday materials, including		
 They talk about the features of their own immediate environment and 				wood, plastic, glass, metal,		
how environments might vary from				water, and rock		
one another.			•	Describe the simple physical		
They make observations of animals				properties of a variety of		
and plants and explain why some				everyday materials		
-	things occur, and talk about			Compare and group together a variety of everyday materials on		
changes.	ges.			the basis of their simple physical		
				properties.		
What?	Understar	Inderstand what objects are made from and to describe				
	material p	naterial properties.				
Why?		The children need to know the difference between materials				
	-	and objects. They need a knowledge of material properties to				
	lessons.	Inderstand a change in state and to help with DT and art essons.				
How?	Through o	Through observation and comparison. By looking at a wide				
	variety of	variety of materials. Using oracy to discuss the properties of				
	different r	different materials.				
		Vocal	bulary	/		
absorbent	Materia	Material that soaks up liquid easily.				
bendy	An obje	An object that bends easily into a curved shape.				
dull		A colour or light that is not bright.				
elastic	elastic			nes when you pull it and returns to its		
Man-made		original state when you let go, Things that are created by people.				
metal		Hard substance such as iron, steel, gold or lead.				
natural	Things t	Things that exist nature that are not man made.				
opaque	An obje	An object that you cannot see through.				
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plastic	Material that is light in weight and doesn't break easily.		
rough	Uneven and not smooth.		
shiny	Things that are bright and reflect light.		
smooth	No roughness, lumps or holes.		
soft	Not rough or hard.		
stiff	Firm or does not bend easily.		
stretchy	Slightly elastic.		
transparent	An object you can see through.		
waterproof	doesn't let water pass through it.		

Learning					
Objective	Learning				
Can I identify	Pattern seeking				
different materials?	Glass, metal, rock, plastic, wood, water, brick, paper, fabrics,				
	elastic, foil. Have a selection of objects for the children to look at				
	and to sort into different groups. Go around school on a walk and				
	find different materials. Create a board with materials and the				
	names of the material. Be really explicit with difference between				
	objects and materials.				
	Pattern seeking				
Can I describe the	Glass, metal, rock, plastic, wood, water, brick, paper, fabrics, elastic, foil				
	Transparent, waterproof, opaque, stiff, soft, shiny, rough,				
features of materials?	absorbent, bright, bendy, stretchy, hard, smooth, dull.				
	Look at examples of what the words mean. Ask the children to				
	show these things with their bodies and pictures-e.g. stretch up				
	tall, now find and object that is stretchy.				
	Comparative testing				
	Elastic, bendy, stretchy, stiff,				
Can I identify which	Plastic, wool, elastic, cotton, rubber				
materials stretch the	Carry out a comparative test. Use the fair test boards to introduce				
most when mass is	the words change and measure. Have a bag and a number of				
added to them?	weights. Use the materials to hold the bag and add the weights.				
	Which material was the most stretchy? Record as a simple				
	statement for the results.				
	Comparative testing				
Can I identify which Use a range of materials					
materials are the	Toilet roll, cotton wool, sponge, newspaper, towel,				
most absorbent?	Have a range of different materials. Use the fair test boards to				
	reintroduce the words change and measure. We will change the				

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	material and we will observe how much water is absorbed. Create					
	a simple class table with pictures before and after.					
	Material before	Material after				
	Use pipettes to drop water on to the materials. Discuss which material absorbed the most water? Record as a simple statement					
	for the results.					
Which materials are waterproof? We need to choose a material to make an	Identifying, classifying					
	Tissue, plastic bag, kitchen roll, cardboard, fabric.					
	Have a range of different materials. Discuss what a good umbrella					
	needs to do. Look at different umbrellas. Use the pipettes and the					
	different materials to see which material holds the most water.					
umbrella.	Record as a simple statement for the results.					
	Identifying and Classifying					
	· Natural Materials					
	Chalk, sand, oil, leather, iron, gold, cotton, coal, wood,					
	· Man-made materials					
	Concrete, glass, paper, rubber, steel, plastic, polyester					
	How do the materials you have been given fit into these					
	categories?					
Can I classify	· Hard/soft Stretchy/stiff Shiny/dull Rough/smooth					
materials?	Waterproof/non-waterproof					
	Children use sorting hoops and criteria to sort materials in as many					
	different ways as they can using the learning that has taken					
	place. Children could draw, cut and stick, take photos to record					
	what they have found out.					
	bgh Innequest					

Websites

Everyday materials - KS1 Science - BBC Bitesize

Properties of Materials - Science Games & Activities for Kids (sciencekids.co.nz) Is it waterproof? All subjects - Year 1 - Oak National Academy (thenational.academy) Everyday Materials Year 1 - KS1 | Outstanding Science

Recommended Reads



Materials