OLSE Year Two Science Knowledge Organiser

Advent - Uses of Everyday Materials

Key Objectives: To distinguish between an object and the material it is made from. To identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. To describe the simple physical properties of a variety of everyday materials e.g. transparent, opaque, rough, smooth, hard, soft etc. 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. To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. To know about the effect of heating on changing materials. To learn about the scientific discovery of Charles Mackintosh who used his chemistry skills to design and make the first waterproof coat.

Key Vocabulary		Key Knowledge	
materials	Materials are what objects an from.	\wood:	glass:
suitability	Suitability means having the pr which are right for a specific p	Total Control of the	waterproof, transparer hard, smo
roperties	This is what a material is like of it behaves (soft, stretchy, wate	ad how shape.	
quash an object by ands together.	pushing both Bend an object by grab ends of the object and the ends inwards togeth	oringing strong, can	metal: strong, ha easy to was
wist an object by ands in opposite di			cardboard: strong, ligh stiff.
and in opposite at	indias slowing and general	fabric: soft, flexible, hard-wearing, can be stretchy, warm, absorbent.	rubber: hard-wear elastic, flexi strong.
Woo	od metal	brick ice	0 () cloth
The state of the s	plastic		2
J	plastic	paper metal	
(¿	stone met		water glass
8-8-8		leaves	
		glass	plastic

wool

fabric

1.5.

leather

More Vocabulary			
opaque	Not see through.		
transparent	See through.		
durable	Will last a long time and resist wear and tear.		
fragile	Will easily break.		
rough	Uneven, bumpy and coarse.		
smooth	Flat, even, plane.		
flammable	Will easily catch fire and burn.		
flexible	Can change shape and move easily, is bendy.		
rigid	Will not change shape easily, keeps it shape, is stiff.		
hard	Firm, solid, stiff, rigid.		
soft	Squashy, furry, woolly, downy.		
solid	Hard, dense, compact, keeps its shape - solid ice.		
liquid	Pours and takes the shape of a container - liquid water		
gas Vapour, air, smoke - steam			
natural material Raw materials: wool, stone, wood, straw, cotton, co			
	rubber etc.		
man-made material	Plastic, steel, glass, paper, brick, concrete.		
reduce, reuse,	Making sure we do not waste materials and instead we		
recycle.	use them again. How we can use materials again to help		
	protect the environment? What do you recycle?		
Charles	Charles Macintosh was a Scottish		

Charles Macintosh was Charles α Scottish Macintosh inventor and chemist who invented waterproof fabrics in 1818. Mackintosh raincoat was introduced in 1824.

