

Year: 2

Topic: Uses of everyday materials

What should I already know?

- Objects are things that you can touch or see.
- Objects are made from materials.
- Some materials that objects are made from (e.g. glass, wood, plastic)
- Some words to describe materials (e.g. shiny, soft, rough absorbent)
- Materials which are natural and which are man-made.

What will I know by the end of the unit?

What are materials used for?

- Materials are used for different purposes based on their properties.
- For example, wood is used to make furniture and floors
- Metal can be used to make coins, cans, cars and cutlery.
- Glass can used to make windows.





















elastic



suitable

twist

transparent

unsuitable

waterproof

wood

for it

What

properties of materials make them suitable for a particular use?

- Glass can used to make windows because it is transparent.
- Rulers can be made from wood, plastic or rubber because these materials are smooth and can be cut straight.
- Spoons are made from metal, because it is waterproof and can be cleaned easily.
- They can also be made from **plastic** for children because **plastic** is light and it cannot hurt children's growing teeth.



























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How can you change the shape of materials? • The shape of some materials can be changed when they are **stretched**, **twisted**, **bent** and **squashed**.







bend





Vocabulary absorbent material that soaks up liquid easily an object that bends easily into a curved shape bendy rectangular blocks of baked clay used for building walls, brick which are usually red or brown dull a colour or light that is not bright a rubber material that stretches when you pull it and elastic returns to its original size and shape when you let it go cloth or other material produced by weaving together fabrics cotton, wool or other threads. foil sheets of metal as thin as paper glass a hard transparent material man-made things are created by people metal a hard substance such as iron, steel, gold, or lead natural things that exist in nature and are not made by people if an object or substance is **opaque**, you cannot see opaque through it a material which is light in weight and does not break plastic a series of actions used to produce something or reach a process goal. the qualities or features that belong to something and properties make it recognisable purpose the reason for which it is made or done waste or materials which can be processed and used recyclable again the hard substance which the Earth is made of rock uneven and not smooth rough shiny things are bright and reflect light smooth no roughness, lumps, or holes soft not rough or hard pressed or crushed with such force that something loses sguash its shape firm or does not bend easily stretchy slightly elastic

Strand: Chemistry

Investigate!

occasion is right or acceptable for it

turn something to make a spiral shape

does not let water pass through it

something that is suitable for a particular purpose or

Someone or something that is unsuitable for a particular

purpose or situation does not have the right properties

the material which forms the trunks and branches of

If an object is **transparent**, you can see through it

- Compare the uses of everyday materials in and around the school with materials found in other places (at home, the journey to school, on visits, and in stories, rhymes and songs)
- Observe closely the uses of different materials, and record your observations.
- Distinguish between absorbent and waterproof materials. Discuss what happens when water is placed on these materials.
- Consider why some properties of materials make them suitable or unsuitable for different uses.
- Investigate if some items can be made by more than one material (e.g. cutlery) and explain why.
- Investigate if some materials can be used to make more than one thing.
- Discuss which materials are recyclable and why. Follow the recycling process.
- Investigate how some objects can be changed by squashing, bending, twisting and stretching.
- Find out about people who have developed useful new materials, for example John Dunlop, Charles Macintosh or John McAdam

Topic: Uses of everyday materials		rials	Year: 2		Strand: Chemistry		
Question 1: The most suitable material to make windows is:	Start of unit:	End of unit:	Question 3: Why do s children drink out of p cups rather than glass	olastic	Start of unit:	End of unit:	
wood							
netal							
lass							
ock							
Question 2: The reason for	Start of	End of					
nis is because:	unit:	unit:					
			Question 4: Stretching	gand	Start of	End of	
			twisting an object will		unit:	unit:	
			change the shape of to	he			
			keep the object the same				
	l	<u>I</u>				I	
Question 5: Match these properties of materials to suitable for:			the uses they are most	Start of	unit: En	d of unit:	
a raincoat		[soft				
a pillow		[absorbent				
a sponge		[waterproof				
				1			