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,
- 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
- Metal can be used to make coins, cans, cars and
- Glass can used to make windows.



































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.































How can you change the shape materials?

• The shape of some materials can be changed when they are stretched, twisted, bent and squashed.









bend squash

cotton, wool or other threads. sheets of metal as thin as paper foil 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 things are bright and reflect light shiny smooth no roughness, lumps, or holes not rough or hard soft pressed or crushed with such force that something loses sguash its shape stiff firm or does not bend easily stretchy slightly elastic something that is suitable for a particular purpose or suitable

Vocabulary

an object that bends easily into a curved shape

rectangular blocks of baked clay used for building walls,

a rubber material that stretches when you pull it and

returns to its original size and shape when you let it go

cloth or other material produced by weaving together

material that soaks up liquid easily

which are usually red or brown

a colour or light that is not bright

Strand: Chemistry

Year: 2

absorbent

bendy

brick

dull

elastic

fabrics

transparent

unsuitable

waterproof

wood

for it

twist

Investigate!

occasion is right or acceptable for it

turn something to make a spiral shape

does not let water pass through it

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

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

- 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 observa-
- 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 everyo	Year: 2			Strand: Chemistr				
Question 1: The most suitable material to make windows is:	Start of unit:	End of unit:	Question 3: Why do some children drink out of plastic cups rather than glass ones?			Start o		nd of unit:
wood								
metal								
glass								
rock								
Question 2: The reason for	Start of	End of						
this is because:	unit:	unit:						
							•	
			Question 4: Stretching and		g and	Start o	of Er	nd of
			twisting an object will: change the shape of the			unit:	ι	ınit:
			object	shape of t	ne			
			keep the object the same					
0 5								
Question 5: Match these properties of materials to suitable for:			ne uses they are most Start c		Start of	f unit: End		unit:
		Г		İ				
a raincoat		L	soft					
		г		I				
a pillow		L	absorbent					
a sponge		Г	waterproof					
2.51.60		L	waterproof					
a table		ſ	stiff					
		_		•				