

Year Two - Autumn 1 and 2 - Use of everyday materials

Key Vocabulary

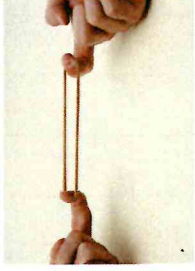
Materials	What something is made from.
Suitability	How good a material is for a job
Properties	What a material is like and how responds to different situations.
Natural	A material found in nature and not made by humans
Man-made	A material made by humans
Absorbent	A material that soaks up liquid easily
Fragile	A material that can break easily
Flexible	A material that is easy to bend
Waterproof	A material that doesn't allow liquid through
Rigid	A stiff material

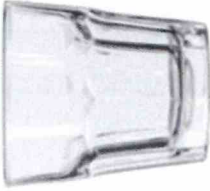
Stem sentences

"I can group materials based on if they are _____"

"I predict that material will be the most property"

"I predict that material will be the least property"

Squash		Twist	
Squash by pushing the object from both sides.		Twist by turning ends in opposite directions.	
			
Bend		Stretch	
Bend by bringing ends towards each other.		Stretch by pulling each end in opposite directions.	
			
Absorbent		Fragile	
A material that soaks up liquid easily		A material that can break easily	
			
Waterproof		Rigid	
A material that doesn't allow liquid through		A stiff material	
			

Wood	Plastic	Paper	Fabric
			
Glass	Metal	Cardboard	Rubber
			

Wednesday 11th September

What is a Material?

Retrieval Practice

Tick the statement that is true

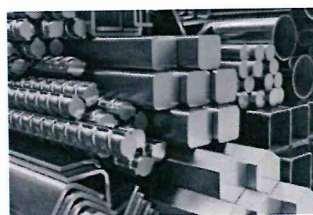
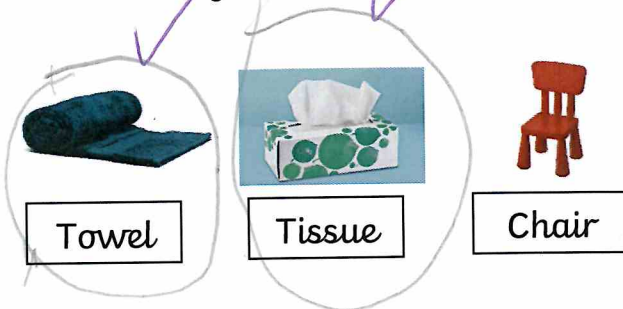
- ☐ A material is something that is flexible
- ☒ A material is what something is made from
- ☐ A material is always transparent

What two materials are these scissors made of?



metal and Plastic

Circle the objects that are **absorbent**



Name two properties metal has

Hard and Solid

Wednesday 11th September

Materials

Today the children explored different materials. They found objects in the classroom and discussed what they were made from.



Wednesday 18th September

Natural

Retrieval task

Circle the objects that are flexible



table



newspaper



jumper

The object is a

bag

The material is

Paper



What is a material?

Objects are made

Wednesday 18th September 2024

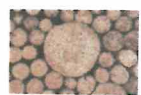
Natural and man-made materials

The children sorted objects into two groups and explained why they made those choices.



wednesday 25th september

Retrieval task



Wood is man-made / natural



Plastic is man-made / natural



Gold is man-made / natural



Glass is man-made / natural

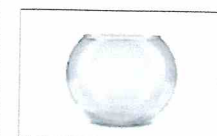


Chalk is man-made / natural

Give an example of something you can make from brick

House ✓

Match each object to the material it is made from



✓

plastic



✓

metal



✓

glass



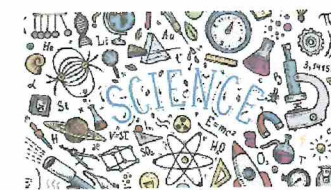
✓

wood

Line of enquiry / investigation

'How can we change the appearance of materials'

Prediction – What do you think will happen?



Material	Can You Squash It?	Can You Bend It?	Can you Twist It?	Can You Stretch It?
Modelling Clay	✓	✓	✓	✓
Metal Foil	X ✓	✓	✓	X
Rubber Band	✓	✓	✓	✓
Plastic Block	X	X	X	X
Plastic bottle	✓	✓	X	X
Cotton T-shirt	✓	✓	✓	✓

Wednesday 2nd October

How can a material's appearance be changed?

Retrieval task

Sort these materials into natural or human made materials.

Write the names of the materials in the correct group



wool



plastic



wood

human-made materials

~~Wool~~
✓
plastic

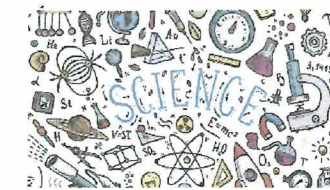
natural materials

Wood ✓
wool

Name another natural material gold, wool

Name another human made material glass, paper

of enquiry / investigation



'How can we change the appearance of Materials?'

Recording - What happened?

Material	Can You Squash It?	Can You Bend It?	Can you Twist It?	Can You Stretch It?
Modelling Clay 	✓	✓	✓	✓
Metal Foil 	✓	✓	✓	✗
Rubber Band 	✓	✓	✓	✓
Plastic Block 	✗	✗	✗	✗
Plastic bottle 	✓	✓	✓	✗
Cotton T-shirt 	✓	✓	✓	✓

Tick which applies to you

☐ My predictions were correct

☒ My predictions were not correct

Because I was able to bend the Play-doh.

wednesday 9th october

How can a material's appearance be changed?

Retrieval task

Tick the statements that are **true**

- ☒ Cotton is a natural material ✓
- ☒ Paper is a natural material
- ☒ Glass is a man-made material

Circle the **natural** materials ✓



The **object** is a

Spoon



The **material** is

metal

Name a **material** you can

Bend	fabric ✓
Stretch	rubber band ✓
Twist	play-doh ✓
Squash	bottle ✓

When I squashed the modelling clay it became flatter.

When I stretched the rubber it became longer.

When I bent the plastic bottle it became bended.

When I twisted the t-shirt it became shorter.

a sponge can be moved by rolling it.

a bottle can be moved by pushing it.

a block can be moved by pulling it.

Wednesday 6th November

What are the properties of materials

Retrieval task

Draw lines to match the definition ✓

Pulling	Twisting	Pushing
---------	----------	---------

Turning ends in opposite directions	Moving something away from you	Moving something towards you
-------------------------------------	--------------------------------	------------------------------

Tick the picture that shows squashing ✓





☐
☒
☐

Circle the object that can bend ✓





Circle the object that can stretch ✓







Line of enquiry / investigation

'Can you classify materials by their properties?'

Fragile	Durable
glass ✓	brick ✓
	rock ✓
	tile ✓
Waterproof	Absorbent
rubber ✓	cardboard ✓
plastic ✓	paper ✓

Materials:

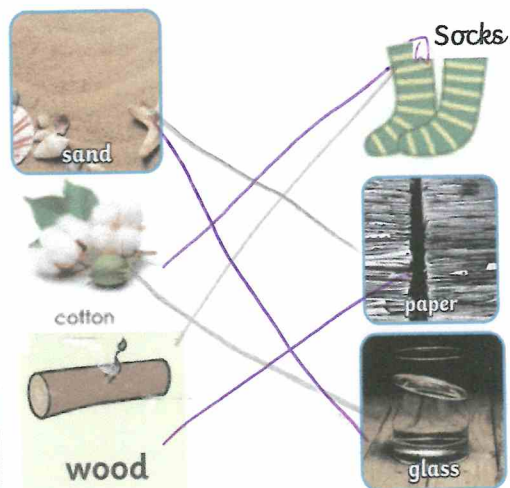
 Wood	 Rubber	 Cardboard
 Plastic	 Rock	 Paper
 Glass	 Brick	 Metal

Wednesday 13th November

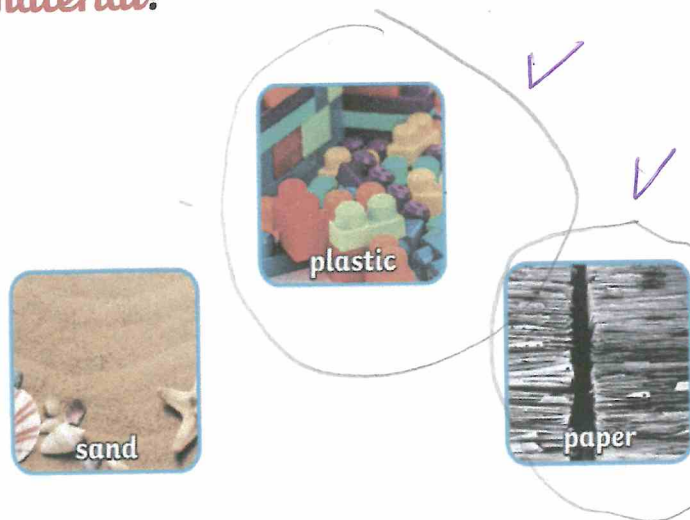
what are the properties of materials?

Retrieval Task

Draw lines and match the **man-made object** with the **natural material**?



Can you circle all the **man-made material**?



What is a **natural material**?

A natural material is something that grows.

A material is found in nature not made by human.

Complete the sentence using **stretched, squash, longer or flatter**.

When I stretched the modelling clay it becomes longer flatter.

When I squash the modelling clay it becomes longer.

Wood is used to make a table because it is durable.

Plastic is used to make bags because it is flexible.

glass is used to make windows because it is transparent.

metal is used to make keys because it is waterproof.

wool is used to make a wool because it is absorbent.

brick is used to make houses because it is durable.

wed 20th November

Retrieval task

Name a material that is:

Hard

wood ✓

Transparent

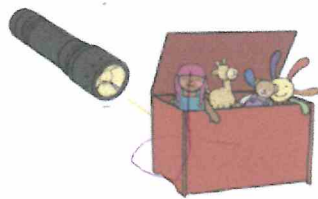
glass ✓

Absorbent

~~paper~~ cotton ✓

What is the opposite of transparent?

opaque ✓



The object is

umbrella ✓

A property is

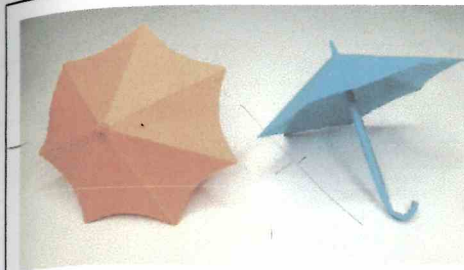
waterproof ✓



Glass is a very fragile material ✓



My turn:



Paper umbrella

Umbrellas are made of plastic because it is waterproof. If it was made of paper we would get wet.

Your turn:



A glass is very fragile and breaks easily.



a plastic bottle is ^{because} suitable for it is waterproof and flexible it might break.

Word bank



Durable



Waterproof



Fragile



Flexible



Absorbent



Rigid



Transparent



Plastic



Glass



Rubber



Paper



Metal

Match the word to the definition (draw lines)

Property
Translucent
Flexible
Absorbent
Durable

Allows some light to pass through
Soaks up liquid easily
Doesn't damage easily (it lasts a long time)
What a material is like or how we could describe it
Easy to bend

