15-10-26 C.W

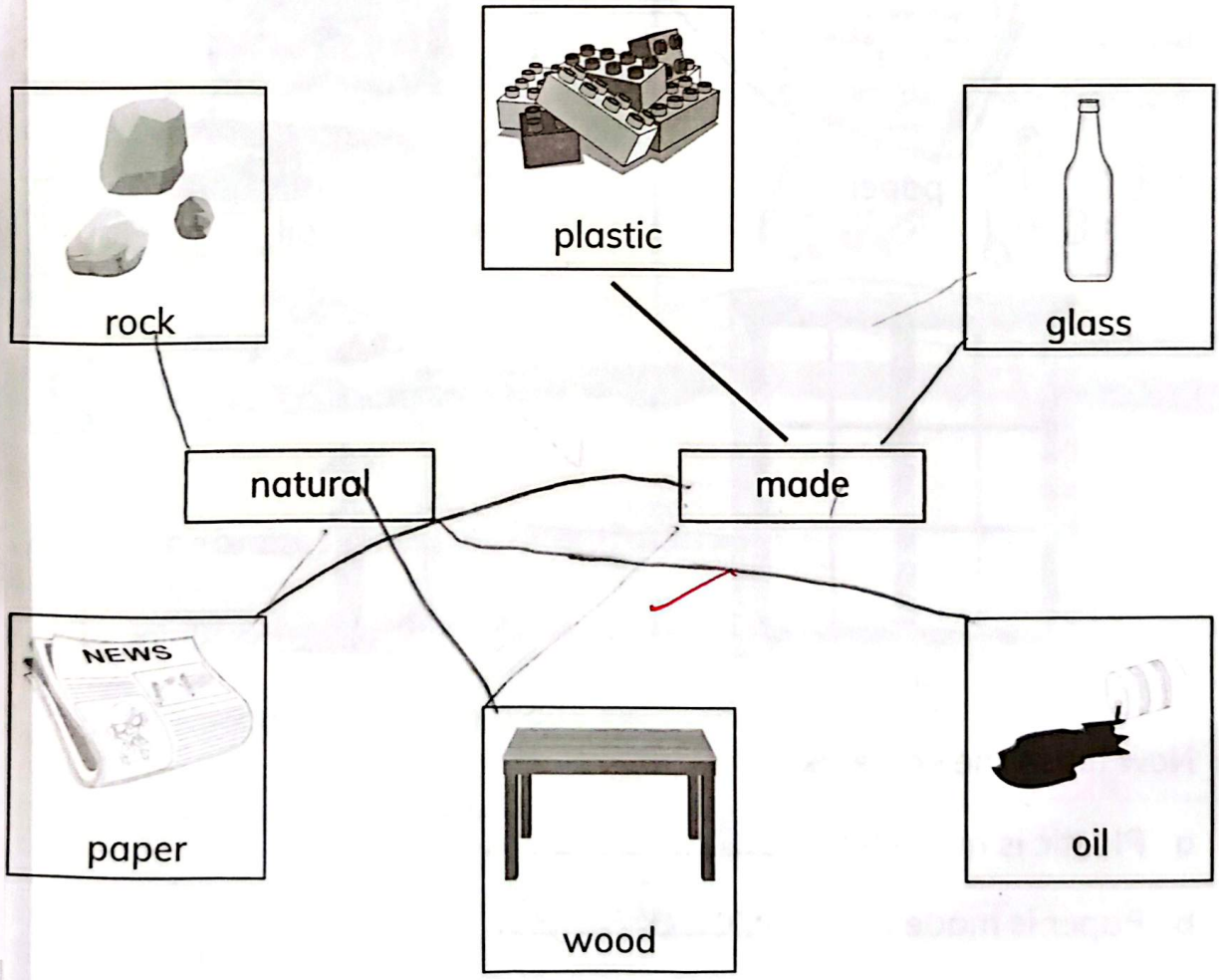
3 Getting materials right

3.1 Natural and made materials

ocus

Are these objects made from natural materials?
Are they made from materials that have been made by people?

Draw lines to show if the materials are natural or made.



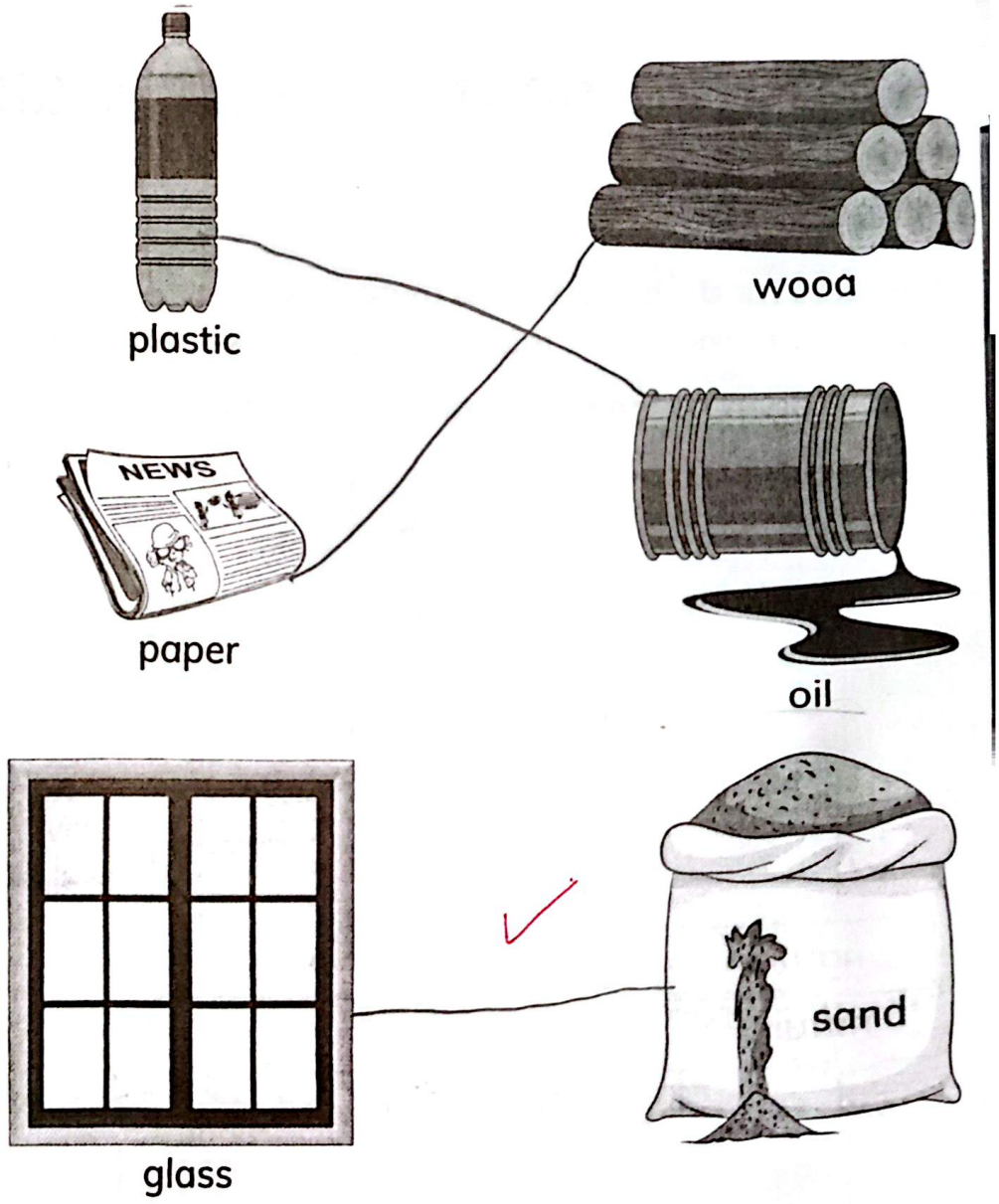
CamScanner

15-10-26 C.W

Practice

2 Match these made materials to the natural materials they are ma

Made materials	Natural materials
plastic	wood
paper	oil
glass	sand



3 Now finish the sentences.

a Plastic is made from oil.

b Paper is made from wood.

c Glass is made from sand.

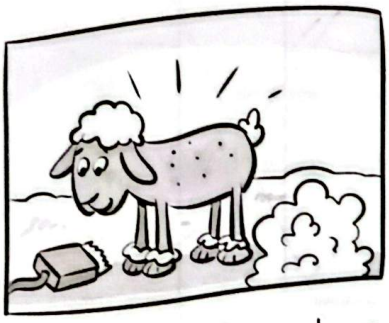
CamScanner

Challenge

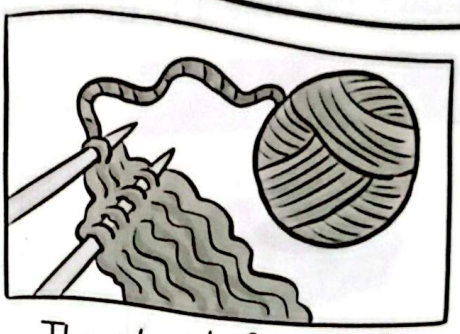
Read this information about wool.

WOOL

Wool grows on animals called sheep.
The wool is used to make long threads.
It can be made in different colours.

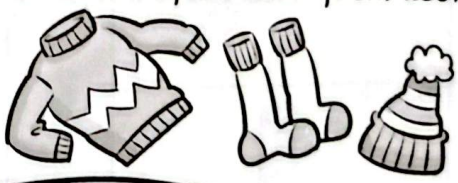


Shearing wool from sheep



Thread made from wool

The wool threads are made into warm clothes. Jumpers, gloves and scarves are often made from wool.



4 a Where does wool come from? It comes from sheeps.

b What is wool used for? To make warm clothes.

c Is wool a natural or a made material?

It is natural.

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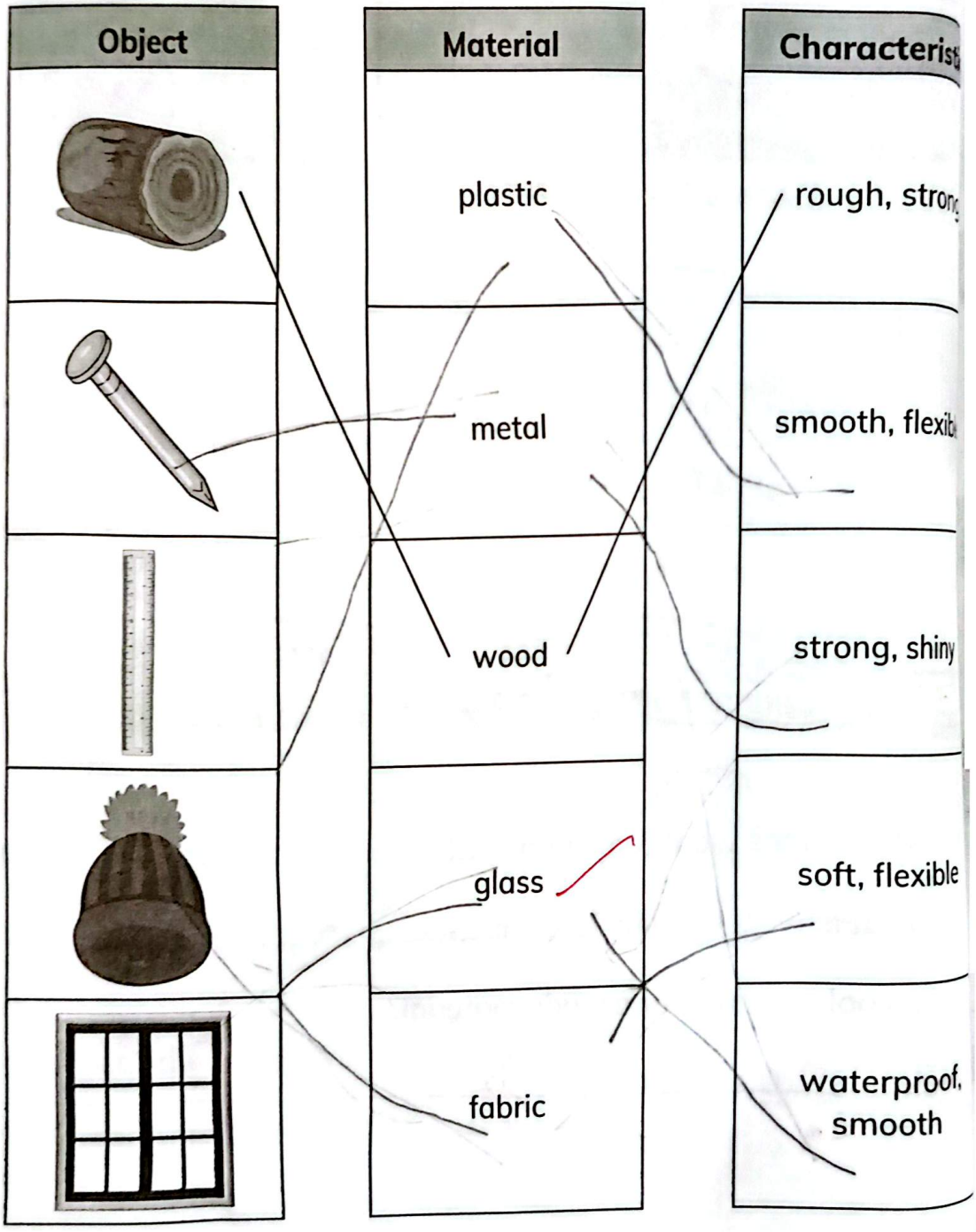
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20-10-26 H.W

3.2 Properties of materials

Focus

1 Match the object to the material and the characteristics.



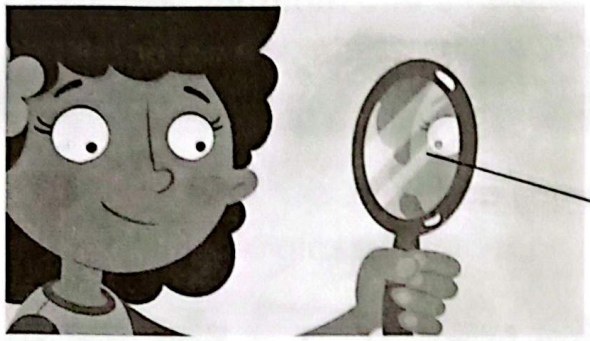
CamScanner

21-10-26 C.W

Practice

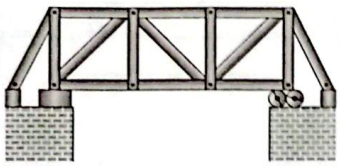
2 Sort these materials using the Venn diagram.

Write the name of the material in the right place on the Venn diagram.





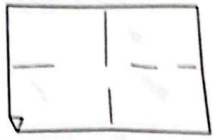
rock



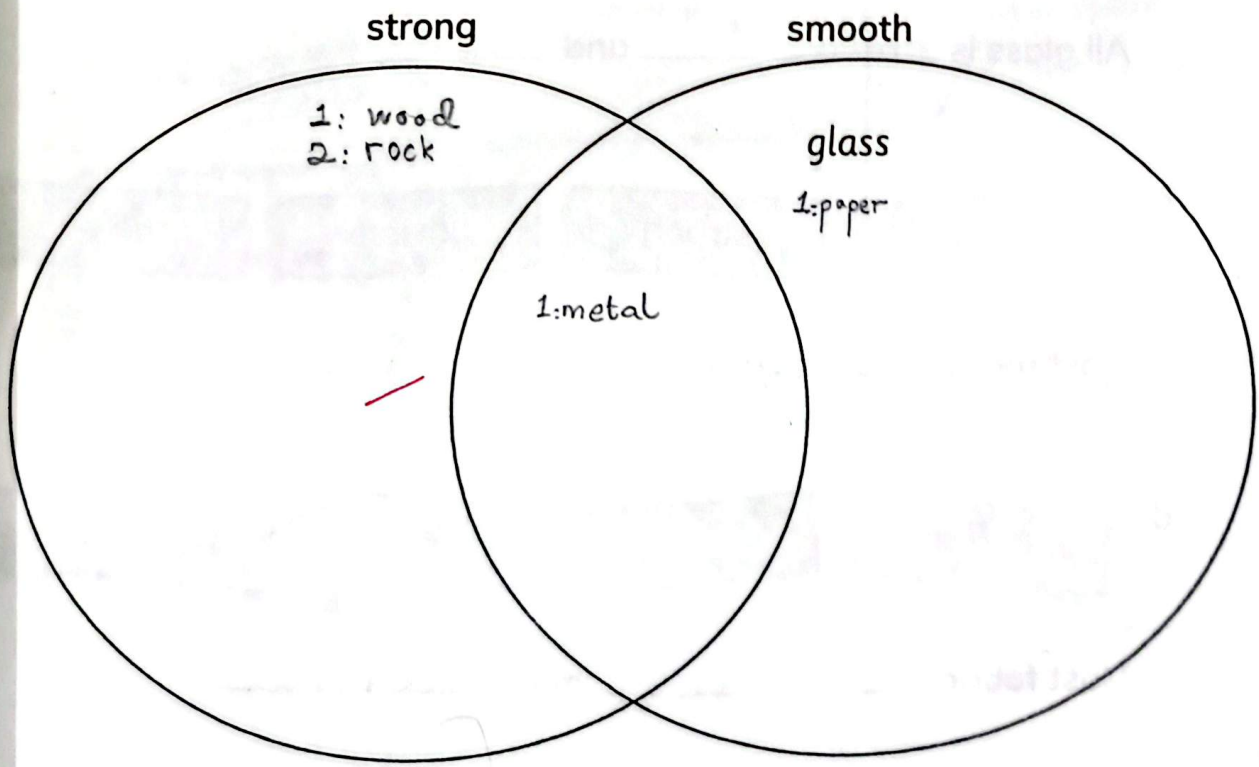
metal



wood



paper



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21-10-26 C.W

Challenge

3 Use the right words to finish the sentences.

Example:

weak | strong | flexible | rigid

Most metal is strong and rigid.

a waterproof | absorbent | strong | weak

Most plastic is waterproof and strong.

b hard | soft | flexible | rigid

All glass is rigid and hard.

c weak | strong | flexible | rigid

Most rock is strong and rigid.

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d waterproof | absorbent | flexible | rigid

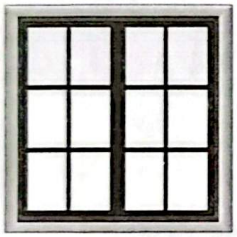
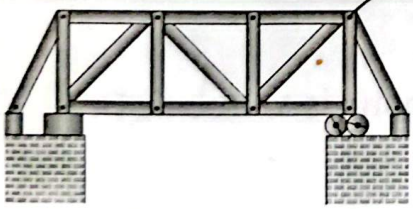
Most fabric is absorbent and flexible.

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3.3 Using the right material

Focus

1 Match each object to the best material and its useful property.

Object	Material	Useful property
	glass	flexible
	rubber	transparent
	metal	absorbent
	fabric	soft
	paper	rigid

28-10-26

Practice

2 Use the right words to finish the sentences.

Example:

weak	absorbent	strong

A wall can be made of rock because rock is *strong*.

a

soft	strong	flexible

A chair can be made of wood because wood is strong

b

shiny	flexible	transparent

A window can be made of glass because glass is transpar

c

flexible	transparent	waterproof

A bottle can be made of plastic because plastic is waterp

d

hard	soft	rigid

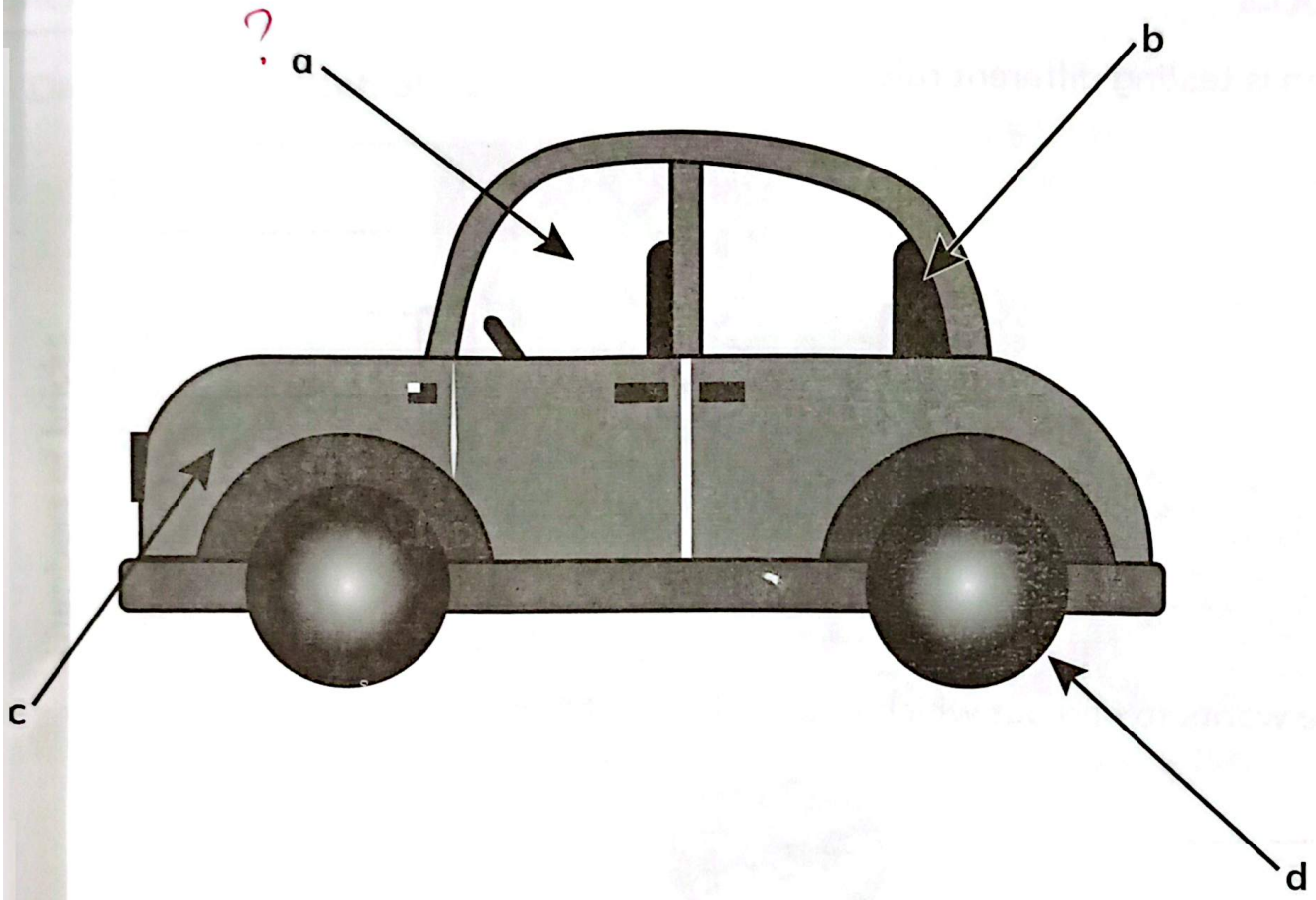
A T-shirt can be made of fabric because fabric is soft

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27-10-26 C.W

Challenge

3 Why are these materials used to make a car?



a The windows are glass because glass is transparent.

b The seats are fabric because fabric is soft.

c The body is metal because metal is hard..

d The tyres are rubber because rubber is flexible..

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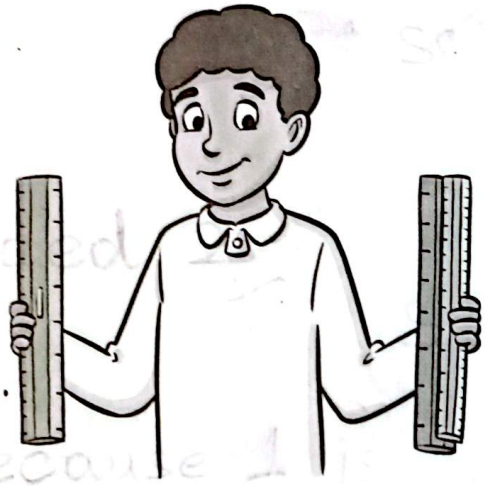
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3-11-26 G.W

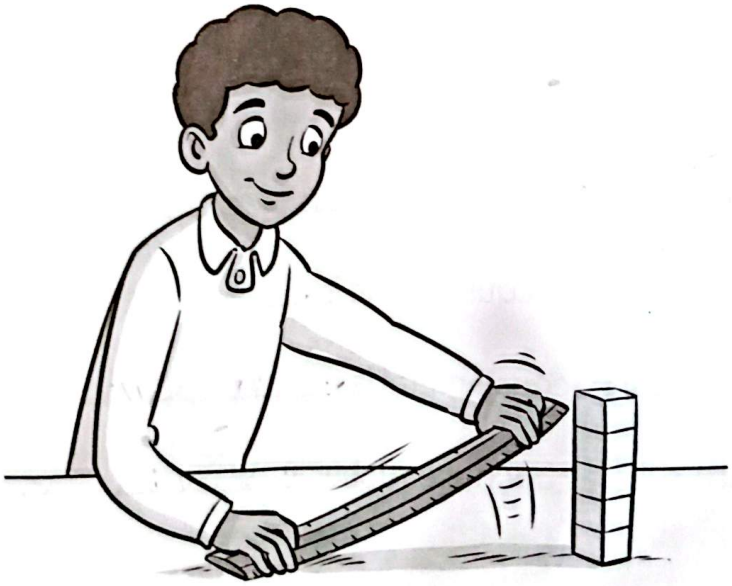
3.4 Testing materials

Focus

Ben is testing different rulers.



He wants to find out which ruler is the most flexible.



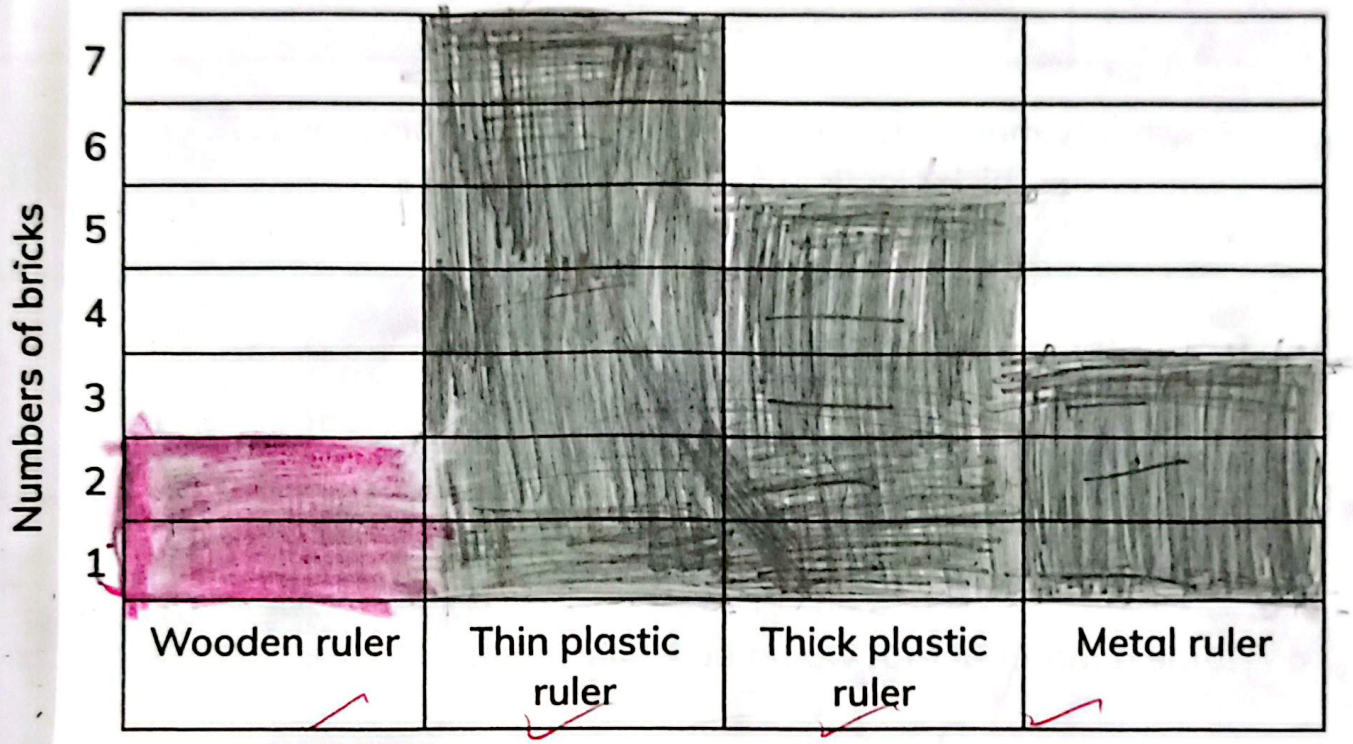
Ben uses bricks to measure how much each ruler bends.

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ese are his results.

	Wooden ruler	Thin plastic ruler	Thick plastic ruler	Metal ruler
ricks	2	7	5	3

Draw a block graph of Ben's results.



actice

Look at Ben's results in the Focus exercise.

a Which ruler was the most flexible? Thin plastic ruler

b Which ruler was the most rigid? wooden ruler

c Which ruler was the least rigid? Thin plastic ruler

Ben says 'The metal ruler is the least flexible.'

d Is Ben correct? No

e Why? wood ruler is least flexible

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Challenge

3 Look at Ben's results in the Focus exercise.

a How many more bricks did Ben need for the thin plastic ruler than for the wooden ruler?

He needed 5

b How many more bricks did Ben need for the thin plastic ruler than for the thick plastic ruler?

He needed 2.

c Two of the rulers were plastic.
Why did they not bend by the same amount?

It's because 1 is thick and other is thin.

d Name a material that would be a silly material to use to make a

Chocolate

e What properties make this material silly for a ruler?

It can melt.

4 Good

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3.5 Changing materials

Focus

1. Draw around the five materials that are changing in this picture.



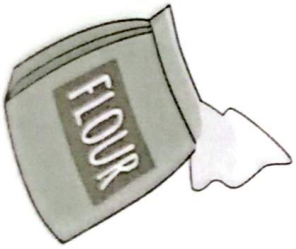
11/11

Practice

2 Write solid or liquid next to these materials.



a solid



b solid



c solid



d liquid



e liquid

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Challenge

3 Add the missing words to these sentences.



melt | solid | solid | liquid

A bar of chocolate is a solid. If you make a bar of chocolate hot it will melt. This makes the chocolate into a liquid. If you let the chocolate get cold again it will turn back into a solid.

4 Add the missing words to these sentences.

heated | mixture | different



Butter, sugar and eggs are used to make a cake. These three different materials are made into a mixture. They are then heated in an oven to make the cake.