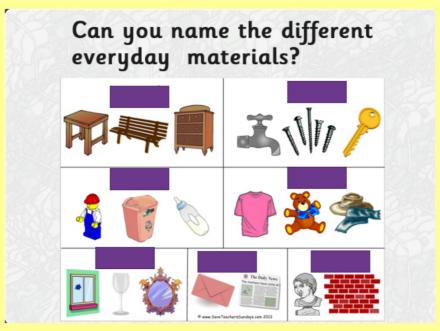
WALT: Investigate how strong different types of paper are



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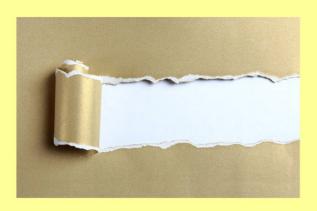
I need to wrap my niece's birthday present in paper that will not rip easily as I need to send it in the post.



Can you help me find the strongest paper?

WALT: Investigate how strong different types of paper are

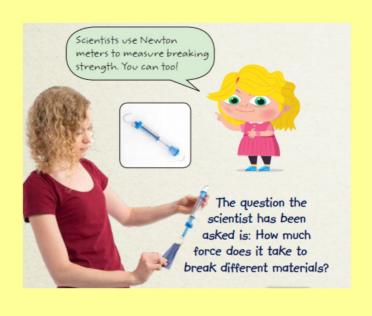
How could we carry out this experiment?



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Scientists can measure how easily things break or rip.
This is measured in Newtons
If a material rips with I Newton of pull, it is weaker than a material that rips with IO Newtons.





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Being a Scientist

All scientists do things in the same way. They:

- decide on an aim (what they want to find out)
- make a prediction (what they think will be the right answer)
- decide how to test their prediction (a method)
- test their predictions (by investigating)
- record what happens (their results)
- come to a conclusion (see what they found out)

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Deciding on an aim

To find the strongest paper to wrap up a present.



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Making a prediction

Making a prediction means saying what we think will happen.

We should always try to give a reason for our **predictions**, so we use the word 'because'.

I predict	that	
because		

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Method

The method means how we plan to test our predictions.

We have to try and plan to do a fair test, so that we find out the correct answer.

To make it fair test we must only change one thing and keep the rest the same.

We need to decide what we will change and what we will keep the same.

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Change













Brown paper

Keep the same

The size of the material

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Method of the investigation

You will need:-

- · Different types of paper
- Scissors
- Ruler
- Pencil
- Newton Meter
- Investigation write up

What you will do:-

- 1. Cut the different types of paper into 2cm by 10cm rectangular strips.
- 2. Fold the strips of paper in half.
- 3. Taking each strip of paper in turn hook the paper onto the Newton meter at the fold.
- 4. One person hold the Newton meter, another person pull the end of the paper until it rips.
- 5. Read the number of Newtons it took to rip the paper and record on results table.
- 6. Repeat stages 3 to 6 with each strip of paper.













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Results

Our results mean what we found out when we did our investigating.

Scientists often record their results in a table.

We will record our results in a table and a block graph.

Conclusion

Our conclusion means what we found out when we did our investigation.

Today, our conclusion will help me know which material/paper to use to wrap up and send my niece Amelia's birthday present. Wednesday 24th February WALT: Investigate how strong different types of paper are

After we have pulled the paper until it rips we need to read in the newton meter how many Newton it took and record it in the table

Type of paper Force used to rip in Newtons

Wednesday 24th February WALT: Investigate how strong different types of paper are

Use the results table to show the results in a block chart

Results Block	chart			
22				
20				
18				
16				
14				
12				
10				
8				
6				
4				
2				
		Тур	e of paper	

WALT: Investigate how strong different types of paper are

24.2.21	Gold	Results table		
Plan and Carry out an Investigation		Type of		
Aim:		paper		
I am trying to find out				
		Force used to rip in		
		Newtons		
Prediction:-				
I predict that thepaper will b	oe the strongest,			
because		Results Block chart		
Decause		22		
Method;-		20		
I will keep these things the same_		18		
I will keep these things the suite		16		
I will change		14		
		12		
		10		
		8		
		6		
		4		
		2		
What I will do				
1. Cut the into strips of	ofcm bycm.			
2. Fold thein half.			Type of paper	
3. Hook		Conclusion		
4. Pull			rrong because	paper was the
5. Road		strongest. I know this bec	ouse	
6. Repeat_				

P4.2.21	Silver
	arry out an Investigation
Aim:	
I am trying to find out	
Prediction:-	
I predict that the	paper will be the strongest,
because	
Method;-	
I will keep these things the same	
-	
I will change	
	ubels.
	middels.
I will change Diagram of the investigation with I	obels.
	ushels.
	ubets.
	subels.
	ubels.
	ubels.
	subels.
	ubels.