

Name: _____ Date: _____

Can you tick yes (Y) or no (N) to predict what will happen?



Tissue paper

Y N

Will this stretch?	<input type="checkbox"/>	<input type="checkbox"/>
Will this rip?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be strong?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be waterproof?	<input type="checkbox"/>	<input type="checkbox"/>



Card

Y N

Will this stretch?	<input type="checkbox"/>	<input type="checkbox"/>
Will this rip?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be strong?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be waterproof?	<input type="checkbox"/>	<input type="checkbox"/>



Plastic bags

Y N

Will this stretch?	<input type="checkbox"/>	<input type="checkbox"/>
Will this rip?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be strong?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be waterproof?	<input type="checkbox"/>	<input type="checkbox"/>



Tin foil

Y N

Will this stretch?	<input type="checkbox"/>	<input type="checkbox"/>
Will this rip?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be strong?	<input type="checkbox"/>	<input type="checkbox"/>
Will this be waterproof?	<input type="checkbox"/>	<input type="checkbox"/>

Name: _____ Date: _____

Can you colour the correct box to predict what will happen?



Tissue Paper

Not much stretch	Stretches a little bit	Stretches a lot
Not much rip	Rips a little bit	Rips a lot
Not very strong	A little bit strong	Very strong
Not water proof	A little water proof	Very waterproof



Card

Not much stretch	Stretches a little bit	Stretches a lot
Not much rip	Rips a little bit	Rips a lot
Not very strong	A little bit strong	Very strong
Not water proof	A little water proof	Very waterproof



Plastic Bag

Not much stretch	Stretches a little bit	Stretches a lot
Not much rip	Rips a little bit	Rips a lot
Not very strong	A little bit strong	Very strong
Not water proof	A little water proof	Very waterproof



Foil

Not much stretch	Stretches a little bit	Stretches a lot
Not much rip	Rips a little bit	Rips a lot
Not very strong	A little bit strong	Very strong
Not water proof	A little water proof	Very waterproof

Name: _____ Date: _____

Can you write/draw what you think will happen in the boxes provided?



Tissue Paper

1	
2	
3	
4	



Card

1	
2	
3	
4	



Plastic Bag

1	
2	
3	
4	



Foil

1	
2	
3	
4	

Challenge A



Look at your worksheet!
Make your predictions.

1. **Stretch** the tissue paper.
2. **Rip** the tissue paper.
3. Hold it in the air and place the **weight** on it.
4. Wrap the cotton wool in the tissue paper and dunk it in **water**. Pull it out again and see if the wool is wet.

Challenge B



Look at your worksheet!
Make your predictions.

1. **Stretch** the plastic bag.
2. **Rip** the plastic bag.
3. Hold it in the air and place the **weight** on it.
4. Wrap the cotton wool in the plastic bag and dunk it in **water**. Pull it out again and see if the wool is wet.

Challenge C



Look at your worksheet!
Make your predictions.

1. **Stretch** the card.
2. **Rip** the card.
3. Hold it in the air and place the **weight** on it.
4. Wrap the cotton wool in the card and dunk it in **water**. Pull it out again and see if the wool is wet.

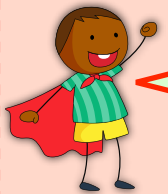
Challenge D



Look at your worksheet!
Make your predictions.

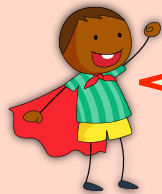
1. **Stretch** the foil.
2. **Rip** the foil.
3. Hold it in the air and place the **weight** on it.
4. Wrap the cotton wool in the foil and dunk it in **water**. Pull it out again and see if the wool is wet.

Choose a material on the table and test its **hardness.**



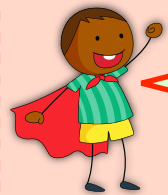
Scratch the material and push your thumb down hard on top of it.

Choose a material on the table and test its **strength.**



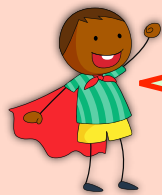
Pull the material apart with your hands until it breaks.

Choose a material on the table and test its **toughness.**



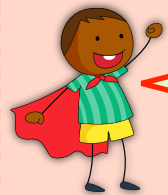
Hit the material with a stick. Does it crack or not? Be careful.

Choose a material on the table and test its **elasticity.**



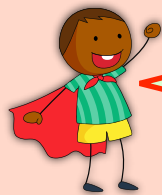
Stretch the material as much as you can. When you let it go does it return to its original shape?

Choose a material on the table and test its **absorbency.**



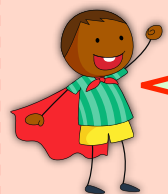
Pour small amounts of water onto the material and see if it holds water.

Choose a material on the table and test if it's **waterproof.**



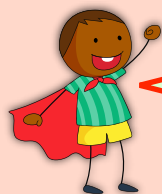
Pour small amounts of water onto the material and see if the water runs off it.

Choose a material on the table and test its **scrunch-ability.**



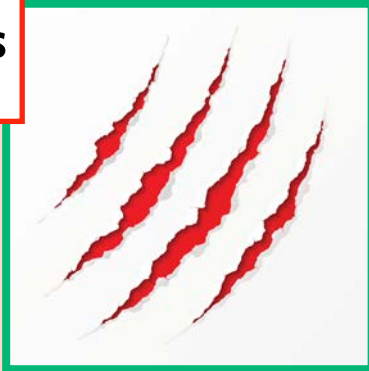
Scrunch the material into a ball. When you let go does it stay scrunched?

Choose a material on the table and test if it **bends.**



Fold the material over itself. Can you do it? Does it stay like that?

Hardness



Strength



Toughness



Elasticity



Absorbency



Waterproof



Scrunch-ability



Bend-ability

