

Testing Properties





Aim

- I can identify which materials have certain properties.

Success Criteria

- I can identify which materials the objects are made from.
- I can test materials to see how they behave.
- I can choose words which describe how materials behave.

Safe Science

Today, we are going to be testing materials. Can you tell somebody what that means?

There are some rules that we need to follow to stay safe:-

- Make sure you have an adult with you all the time while you do this activity.
- Handle the materials carefully.
- Stay away from any sharp edges or corners.
- If you use water, try not to spill it and make sure you wipe up after yourself.
- Don't forget to tidy up after you have finished.

Properties



Think back to our last lesson. How many different properties can you remember? Talk to your partner.



Keywords



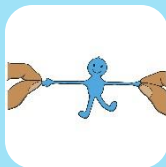
Can you remember the keywords?



hard



soft



stretchy



stiff



shiny



dull



rough



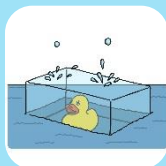
smooth



bendy



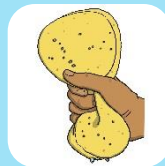
not bendy



waterproof



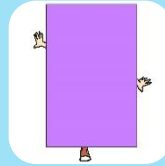
not
waterproof



absorbent



not
absorbent



opaque



transparent

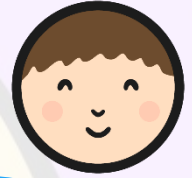
Click to reveal the keyword.

How Materials Behave



You can sometimes tell just by looking at materials which properties they have, but sometimes you have to do a few tests to see how they behave.

Property Testing



Today, we are going to test some materials to find out more about them.

The first thing to do is to decide what you want to find out:-

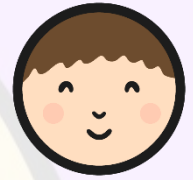
Is a material **waterproof** or not?

Is a material **transparent** or **opaque**?

Is a material **stiff**, **stretchy** or **bendy**?

Or do you want to find out something else about a material?

Property Testing



Then you need to decide how you are going to test this.

Finally, you need to find some **objects** at home that are made from the materials that you want to test.

Make sure you ask a grown-up if you are able to use these objects.
Make sure you tell them what you are planning to do.
And if they say no, then please respect that.

Make sure you write down (**record**) what your object is, what material it is made from and what it does when you test it.

Property Testing Results



- What did you do?
- What did you find out?
- Did anything surprise you?
- Why?



Property Testing Results



You could use a table to record your results.
Here is an example:-

Object	Material	Is it waterproof?	Is it bendy?
Pencil	Wood		
Car	_____		
Toy dog	Plastic		

Please share your work
on Seesaw so we can
see what you found out.

