

Prior learning: In Year One, children learnt what different materials objects were made of, describing and grouping them by their properties

Meet some brilliant scientists who have investigated materials...



John Dunlop was a scientist who invented inflated tyres made out of rubber.



Charles Macintosh was a Scottish scientist who invented a waterproof rubber fabric.

How does a material's properties make it suitable for its use?

We will learn that objects are made out of different materials to make them suitable for a purpose.



Soft



transparent



stretchy



hard

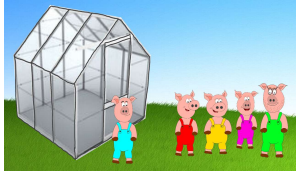


waterproof



I know that materials can be suitable for particular uses

What are materials?



We will read the 'Five Little Pigs' story to learn about materials

We will learn that objects can be made out of different materials:



metal



wood



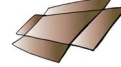
glass



brick



plastic



cardboard

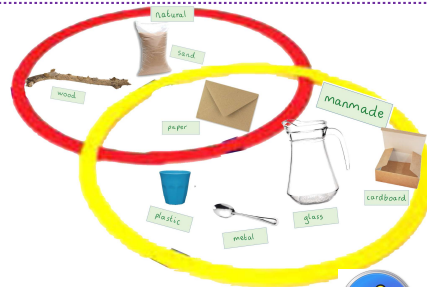


Brilliant scientists know that objects can be made from different materials



Where do materials come from?

We will learn that objects can be made out of different materials. Some materials can be found naturally, such as sand, logs and stone. Some objects are made by people, such as plastic—these are called man-made objects.



Brilliant scientists know that objects can be natural or manmade



How can objects be changed?

We will learn about how we can change objects in different ways



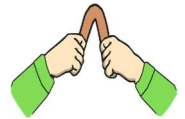
twisting



squashing



stretching



bending

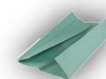


I know that some objects can be changed by twisting, squashing, stretching and bending



What is the best material to make an umbrella?

We will carry out a comparison investigation to find out which materials are Waterproof, making predictions and drawing conclusions about our findings



I know how to make predictions and conclusions to carry out a comparative investigation



Key vocabulary: Glossary

absorbent	Able to soak up easily.	manmade	Not natural. Created by people.	rigid	Does not bend easily.	stretchy	Can be made bigger when pulled.
bendy	Can be bent into a curved shape.	materials	The substance that things are made of.	rough	Uneven. Not smooth.	suitability	How right something is for a purpose.
change	To make or become different.	natural	Found in nature - not made by people.	shiny	Something that is bright and reflects light.	translucent	A material which allows some light to pass through it.
dull	Not shiny or bright	opaque	Not able to see through, not transparent.	smooth	Not rough. Does not have lumps or holes.	transparent	A material which allows light to pass through it.
flexible	Can be bent without breaking.	permeable	A material that water or gas can pass through.	soft	Feels gentle to touch. Not hard.	unabsorbent	Does not soak up easily.
hard	Solid. Not easily broken or bent.	properties	The features of an object.	stiff	Does not bend easily.	waterproof	Does not let water through.