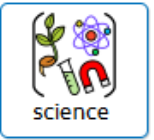




Science – Year 2 – Materials









1. To perform simple tests on familiar materials to test their properties and uses.	2. To perform simple tests on wood, paper and cardboard to test their structure and properties.	3. To investigate the properties of brick and rock.	4. To investigate the use of plastic and glass in everyday life, whilst considering their similarities and differences.	5. To investigate the properties of metals.	6. To investigate natural and man-made materials, comparing their properties and uses.	7. To understand that materials are chosen for a specific purpose.	8. To investigate materials to see if they can bend, squash, twist and stretch.	9. To plan a waterproof investigation	10. To carry out a planned waterproof investigation.
---	---	---	---	---	--	--	---	---------------------------------------	--

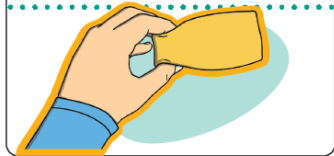
material	What an object is made from	
natural material	A material that comes from animals, plants or the Earth	
human-made material	A material made by people	
recycle	To change rubbish into a material that can be used again	
smooth	An even surface	
rough	An uneven surface	
flexible	Can change shape easily	
rigid	Cannot change shape easily	
rock	A natural material found on or underneath the Earth's surface	
stone	A small rock	
pebble	A small, smooth rock that has been shaped by water	
brick	A human-made building material	
brittle	Easily broken	
transparent	Materials you can see through	
translucent	Materials you cannot see through clearly	
opaque	Materials you cannot see through	

Key Knowledge

Some **materials** can change shape when you squash, bend, twist or stretch them. **Materials** that are soft, bendy or stretchy are often easier to change the shape of than **materials** that are hard, **rigid** or **strong**.

hard	Not easily broken or bent	
shiny	A surface that can reflect light easily	
dull	Not clear, bright or shiny	
fabric	A material made from weaving or knitting threads together	
tough	Not easily broken	
lightweight	Thin and light	
soft	A material that can change easily change shape or is gentle to touch	
bend	To force something to curve	
squash	To crush or squeeze something	
twist	To bend or curl something out of shape	
stretch	To make something longer without ripping, breaking or tearing it	
waterproof	Does not allow water to pass through it	
strong	Not easily broken	
breakable	Easy to break	

Squash an object by pressing on it.



Bend an object by trying to bring both ends towards each other.



Twist an object by holding both ends and twisting your hands in opposite directions.



Stretch an object by holding both ends and pulling your hands apart slowly and gently.

