



## How do the materials around us support us in our lives?

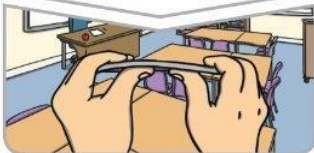
### Key Vocabulary

materials	Materials are what objects are made from.
suitability	Suitability means having properties which are right for a specific purpose.
properties	This is what a material is like and how it behaves (soft, stretch, waterproof).
absorbent	A material that is able to soak up liquids easily
transparent	If an object or material is transparent, it means light completely passes through it, and you can see clearly through it.
opaque	An opaque object does not allow any light to pass through it. Opaque is the opposite of transparent.
waterproof	If a material is waterproof, it keeps water out

Squash an object by pushing both hands together.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.



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

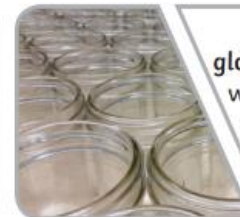


### Key Knowledge

#### Properties of Materials



**wood:**  
hard, stiff,  
strong, opaque,  
can be carved  
into any  
shape.



**glass:**  
waterproof,  
transparent,  
hard, smooth.



**plastic:**  
waterproof,  
strong, can  
be made to be  
flexible or stiff,  
smooth or rough.



**metal:**  
strong, hard,  
easy to wash.



**paper:**  
lightweight,  
flexible.



**cardboard:**  
strong, light,  
stiff.



**fabric:**  
soft, flexible,  
hard-wearing,  
can be stretchy,  
warm, absorbent.



**rubber:**  
hard-wearing,  
elastic, flexible,  
strong.



## How do the materials around us support us in our lives?

Key vocabulary	
recycle	Recycling is the process of taking materials ready to be thrown away and converting (changing) them into reusable materials.
reuse	Reuse means to use something again.
biodegradable	When something is described as biodegradable, this means it can be broken down naturally and return to nature without having a harmful impact on the environment.
invent	Invent means to think of, produce, or create something new.
John McAdam	A Scottish engineer who experimented with using new materials to build roads, inventing a new process called 'macadamisation'.
'Macadamisation'	The name given to John McAdam's construction process of building roads. The process was so successful that roads across the world were built in this way.

