







Year 1: Everyday Materials

Key Learning

Objects are made from different **materials**.

There are lots of different types of materials:

Wood 	Plastic 	Glass 
Metal 	Water 	Rock 

The same object can be made from different materials.

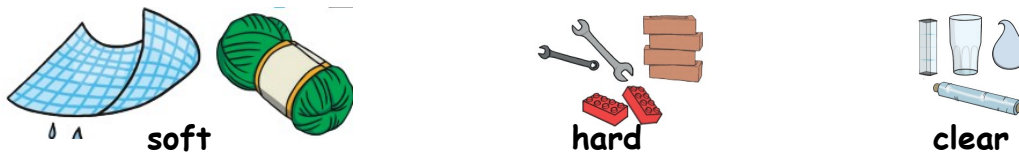
This object is a chair. The material it is made from is...



We can describe what a material is like and how it behaves. This is called describing its **properties**.



We can group materials in different ways:



Sticky Vocabulary

material	What something is made from.
soft	Squashes when you touch it. Soft is the opposite of hard.
hard	Doesn't move much when you press it. Hard is the opposite of
stiff	Not able to bend or change shape easily.
stretchy	Can be made longer or wider without breaking it.
shiny	Light bounces back off it. Dull is the opposite of shiny.
dull	Not very bright. Light doesn't bounce off it easily.
rough	Bumpy or sharp. Rough is the opposite of smooth.
smooth	No lumps or dents. Smooth is the opposite of rough.
bendy	Becomes curved
waterproof	Water cannot get through it
absorbent	Will soak up water.
opaque	Cannot be seen through/does not let light through.
transparent	Can be seen through/lets light through.

Year 2:

Use of Everyday Materials

Key Learning

Different materials are used for different things.

We need to look at the **properties** of the material to see which would be best for the job.

Window frames and door: plastic
waterproof, durable, rigid




Windows: glass
transparent, waterproof, durable, rigid



Roof: slate or rock
waterproof, durable, rigid

Walls: brick
waterproof, protective, durable, rigid

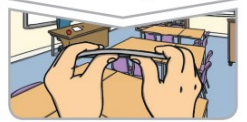
Some materials can be changed by squashing, bending, twisting and stretching.

Object	Suitability
 Bottled water	Plastic: Transparent - so you can see what is inside. Waterproof - so it holds the liquid and doesn't leak. Durable - it's strong, will last a long time and is reusable. Rigid - so it can stand up on its own and can be stacked.
 High visibility jacket	Cloth and plastic: Waterproof - so it can be worn in all weathers. Flexible - it is comfortable and allows for movement. Durable - so it lasts a long time. Reflective - so the person wearing it can be seen in the dark and when lights shine on it.
 Tablet	Glass screen: Transparent - so you can see. Plastic case: Durable - so it lasts a long time. Rigid - so it can hold its shape. Plastic/rubber cover: Durable - strong and lasts a long time. Protective - protects against cracks

Squash an object by pushing both hands together.



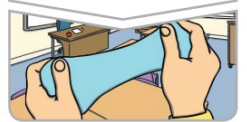
Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.



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



Sticky Vocabulary

transparent	Easy to see through.
opaque	Something you cannot see through.
translucent	Something you can see through a little bit.
reflective	Something you can see through a little bit.
flexible	Easily bent without breaking
rigid	Difficult or impossible to bend.
shape	The way something looks.
push	Get hold of something and make it move away from you.
pull	Get hold of something and make it come towards you.