

Year 2: Can you think and learn like a material scientist?

Materials



Wood



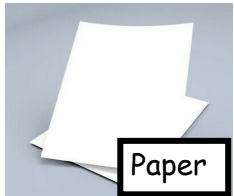
Plastic



Metal



Rock



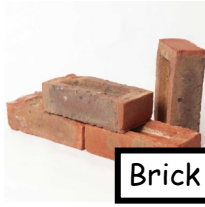
Paper



Cardboard



Glass



Brick



This glass is transparent.



The screen is translucent.



She is hidden by the opaque screen.

Vocabulary

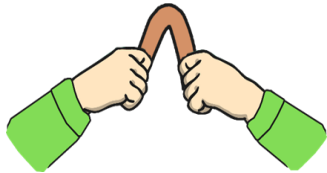
absorbent	Soaks up water.
bendy	Easy to move in different ways.
breaks/tears	Can be ripped or broken up.
dull	No light will bounce off it.
flexible	You can move it in any way without breaking it.
floppy	Not strong or firm.
hard	Made from strong material.
non-reflective	No sun or light will bounce off this material.
opaque	A material you cannot see through.
reflective	Sun or light will bounce off this material.
rigid	You cannot bend it.
rough	Bumpy or harsh, like sandpaper.
scientist	A person who discovers new things and researches how things work.
shiny	Light will bounce off it.
smooth	No bumps, a flat surface.
soft	Made from weak material.
stiff	Hard to bend.
stretchy	You can pull it into a different shape.
translucent	A material you can see some light through.
transparent	A material you can see through.
waterproof	Does not soak up water.

How can we change materials?

We can change the shape of some materials by pushing, pulling, twisting, squashing, bending or stretching them. Some materials cannot be changed.



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 moving your hands in opposite directions.



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