

Year 2 Science

Chemistry: Materials

What we already know:

In Year 1 we learnt that objects are things that you can touch or see.
Objects are made from materials.
Some materials are made from wood, metal, glass or plastic.
Materials can be soft, hard, smooth, rough, stretchy.

What's next?

In Year 3, we will use some of the skills we have learnt about materials to focus in on rocks and fossils. We will learn to identify, group and sort rocks.

Exploring Materials (1/2)

Objects can be made from different materials.

Some materials are natural such as sand, wood and wool.



Some are man-made such as plastic and brick.

Some materials are recyclable and can be used again.

Paper and cardboard are made from wood.
Wood, paper and cardboard come from trees.

Metal comes in many forms and colours.

Glass is hard and brittle.

Same object, different material (3)

Materials have particular uses.

Some objects can be made from different materials.

Some materials are suitable for an object.

Some materials are unsuitable for an object.



What is similar about these keys?
What is different?

Test Materials (4)

Some materials can change shape and some cannot.

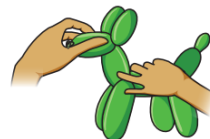
Some materials can be bent.

bend - to force something to curve



Some materials can twist.

twist - to bend or curl something out of shape



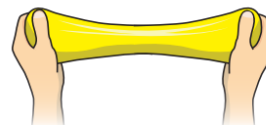
Some materials can be squashed.

squash - to crush or squeeze something



Some materials can be stretched.

stretch - to make something longer without ripping, breaking or tearing it



Vocab

Tier One

Wood, metal, plastic, fabric, glass, brick, rock	Smooth, rough, hard, shiny, dull, bend, twist, strong
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Tier Two

Material	What an object is made from
Natural	A material that comes from animals, plants or earth
Man-made	A material made by humans
Recycle	To change rubbish into a material that can be used again
Flexible	Can change shape easily
Transparent	Materials you can see through
Opaque	Materials you cannot see through

Tier Three

Rigid
Brittle
Translucent

Plan and investigate waterproof materials (5/6)

Which material would be the best for an umbrella?

We can test materials to see if they are waterproof.

Waterproof means water will not pass through it.

Light means easy to lift and move.

