





What I will know by the end of the unit:

- I can identify and compare the suitability of different materials for different uses.



Properties of different materials	
Wood	strong, opaque, stiff, hard
Plastic	bendy, smooth, translucent, stretchy
Glass	transparent, hard, smooth, waterproof
Brick	rough, strong, opaque, dull
Paper	translucent, flexible, not waterproof
Cardboard	rough, dull, opaque, not waterproof
Metal	Shiny, strong, opaque, hard
Rock	Rough, strong, opaque, hard

- I can see how the shapes of solid objects, made from certain materials, can be changed through squashing, bending, twisting and stretching.

			
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.
squashing	bending	twisting	stretching
Pressing, squeezing and crushing so that something becomes flat or changed into a different shape. We might use this when we are baking or using clay.	Changing something that is straight into a curve or at an angle. We might use this when we are bending a wire.	Make into a curled shape by holding and move round in different directions at the same time. We might use this with a piece of paper or material.	Pulling something to make it wider or longer without tearing. We might use this to flatten something out or when making pizza dough.

Key Vocabulary

Materials

Suitability

Property

Object

Transparent

Translucent

Opaque

Absorbent

Waterproof

Elastic

Flexible

Bend

Twist

Squash

Stretch

Investigate!

- We're going on a materials hunt – how many objects can you find made from each material?
- What material would be best for different situations?
- Which ball will bounce the highest?

Scientific skills

- Identifying and classifying.
- Asking simple questions and recognising that they can be answered in different ways.
- Observing closely, using simple equipment.
- Performing simple tests.
- Using their observations and ideas to suggest answers to questions.
- Gathering and recording data to help answer questions.

Curriculum links

- Previous learning in YR and Y1 – Everyday materials.
- Links to Y2 DT – understanding materials and components.