Key Vocabulary

Materials	What something is made of.
Property	What a material is like.
Compare	To notice how things are the same or different.
Discover	To find something unexpectedly or by enquiry.
Suitable	Correct for the purpose.
Use	The purpose for which a material is chosen.
Durable	To be able to withstand wear, pressure or damage.
Absorbent	To take in fluid.
Flexible	To be able to bend easily without breaking.
Opaque	A material that you can't see through.
Rigid	Unable to bend.
Waterproof	Something that does not let water pass through it.
Stiff	Cannot be stretched or squashed.
Transparent	A material that you can see through.
Elasticity	Able to stretch, bend or twist without breaking and then return to original form.
Squashing	Pushing things closely together.
Bending	Changing the shape and direction of something.
Twisting	When one part of an object is moved in the opposite directions to another part.
Stretching	When one part of an object is pulled in the opposite direction to another to change its shape.

Changing Materials

In this area of science, the children will learn to describe the properties of a material and sort them based on these properties. They will learn about how the properties of a material can change and will test if an object is made from a material that can change shape by pushing and pulling.

Background Knowledge

- **All objects are made of materials.**
- **To be able to recognise and name some common materials and their properties.**

Other interesting info

Petrol is used to make plastic and was invented over 100 years ago.

Key Facts

1. **There are many different types of materials, and they all have different properties that can be described e.g. flexible, soft or rigid.**
2. **Certain materials are suitable to make different objects depending on their properties. Properties of materials make them useful for a purpose.**
3. **Squashing, bending, stretching and twisting can change the shape of some materials.**
4. **Different actions such as a push or a pull can be used to change the shape of a material or an object.**
5. **Different properties allow the shapes of materials to be changed in different ways.**

Materials

Wood

Metal

Glass

Plastic

Rock

Paper

Fabric

Water