

Explain why a material might or might not be used for a specific job.

All **objects** are made of one or more **materials** that are chosen **specifically** because they have **suitable properties** for the task. For example, a water bottle is made of plastic because it is transparent allowing you to see the drink inside and waterproof so that it holds the water.

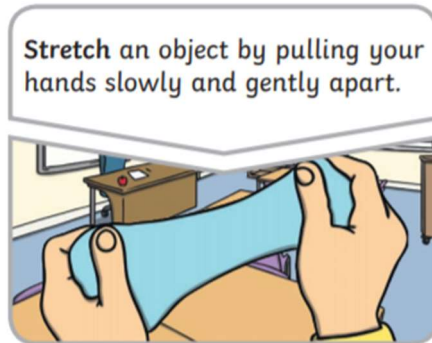
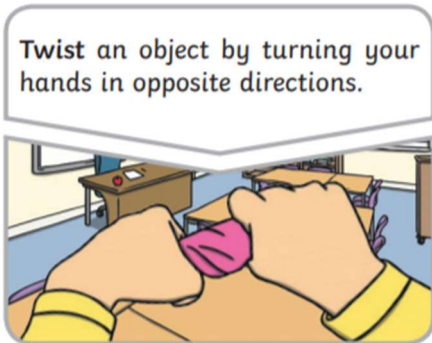
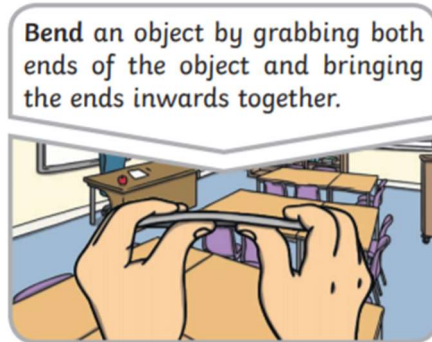
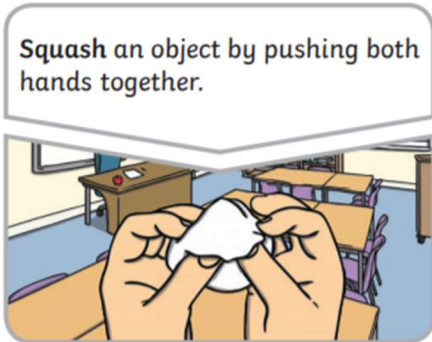
Explain how materials can be changed by squashing, bending, twisting and stretching.

When choosing what to make an object from, the **properties** needed are **compared** with the properties of the possible materials, identified through **simple tests** and **classifying activities**.

A material can be suitable for different purposes and an object can be made of different materials.

Objects made of some materials can be **changed in shape** by **bending, stretching, squashing and twisting**. For example, clay can be shaped by squashing, stretching, rolling, pressing etc.

Materials
wood
plastic
glass
metal
water
rock
brick
paper
fabric
elastic
foil
card/ cardboard
rubber
wool
clay



Properties of materials as for Y1	hard soft stretchy bendy stiff floppy waterproof absorbent breaks/tears rough smooth shiny dull see-through not see-through
opaque	not able to see through
transparent	able to see through
translucent	objects that let some light through, but scatter the light so we can see through them properly
reflective	capable of reflecting light
non reflective	not capable of reflecting light
flexible	capable of bending easily without breaking
rigid	not easily bent or moved

