How can the shapes of objects made from some materials be changed?



Squashing

Changing shape by pushing an object together.



Bending

Changing shape by grabbing both ends of the object and bringing the ends inwards together.



Twisting

Changing shape by turning the ends of the object in opposite directions.





Stretching

Changing shape by pulling the ends of an object slowly and gently apart.

Can all materials be recycled?



Recycling

Recycling is when rubbish is turned into something new.



Recycling helps us to use less raw materials.



Recycling reduces landfill.



Recycling reduces the amount of greenhouse qases released.











KS1- Spring 1 Materials- Science Knowledge Organiser

How can a plastic bottle be changed into different objects?

The journey of a plastic bottle.



Recucling is

taken to a

collected and

recycling depot.

The plastic bottles

are shredded into

small flakes.



Plastic bottles are

machines.

separated from other

rubbish by people or

The plastic flakes are

melted into long

that look like

spaghetti.

strands of plastic



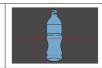
The plastic bottles

are washed.

The strands of

nellets

plastic are cut into



The bottles are sorted by plastic type and

colour using a special

The pellets can then

carrier baas or new

be used to make

new items like

plastic bottles.

process

called infrared.







plastic bottles into...

have been recycled

bags

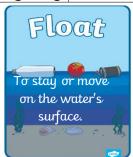


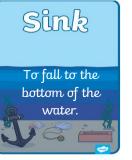
bottles

Does all of the rubbish thrown into the ocean sink to the bottom?

Buoyancy or air.

Buoyancy is an object's ability to float in water





How can we conduct a fair test to find the most suitable recycled material to make a boat?



An investigation where one thing changes while everything else stays the same. This let's us see the impact of the thing that has

How can we represent our findings from a scientific experiment using a pictograph?

A pictograph is a chart which uses pictures to Pictograph show findings from an investigation. Each picture represents one or more than one item.

Example:

