St Michael and All Angels PS

## What I should already know:

A range of basic materials and their properties.
The names of some materials and be able to identify wood, plastic, metal, glass, rock, brick and water.

Materials can be made into many different objects
The same material can be made in to different objects.
The simple physical properties of materials and how these properties make materials useful for a particular purpose.

## By the end of this unit I will know:

There are many different ways to change the shapes of objects made from different materials.

Some materials can be changed by the actions of squashing, bending, twisting and stretching

bend
twist


## Investigation:

How can I change the shape of an object?
What property allows a material to be changed?

| Year 2: Materials: Shaping Up |
| :---: |
| Science: Chemistry |

Working Scientifically
Observing closely, using simple
equipment.
Performing simple tests and
recording data.
Using observations and ideas to
suggest answers to questions.
Gathering and recording data to help in answering
questions.

## TESTING FOR PROPERTIES

Flexible or rigid? Try to bend or twist it
Squashy or stiff? Try to squdash it
Stretchy or stiff? Try to stretch it
Elastic? SQUdSh springs back squash

## Vocabulary

| Absorbent | Being able to soak up liquid easily. |
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| Bendy | An object that bends easily in to a curved shape. |
| Dull | A colour or light that is not bright. |
| Fabric | Cloth or other material produced by weaving <br> together cotton, wool or other threads. |
| Flexible | Can bend easily without breaking. |
| Hard | Materials that don't change shape when touched. |
| Man-made | Materials created by people. |
| Materials | Any substance that has a name: wood, plastic, <br> metal, glass, water, rock, rubber. |
| Natural | Materials that exist in nature and are not made by <br> people. |
| Opaque | Not being able to be seen through. |
| Rigid | Something that is strong and will not bend. |
| Shiny | Things that are bright and reflect the light. |
| Smooth | Materials that have no roughness, lumps or holes. |
| Soft | Materials that are not rough or hard. |
| Stretchy | Materials that are slightly elastic. |
| Translucent | Materials that allow light through but cant clearly <br> see through. |
| Transparent | Materials that allow light through and objects can <br> be clearly seen. |
| Waterproof | Materials that do not let water pass through. |



