

# Bomere and the XI Towns Federation Knowledge Organiser—Science

Topic: - Everyday Materials

Class/Year Groups: Year 2

Term: Autumn

What you already know?

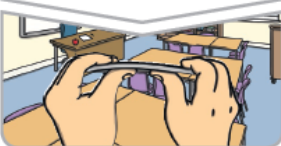
In Year 1 pupils learned vocabulary to describe material properties. They carried out simple tests on materials sorted them in order by property, e.g. opacity. They investigated the best material to make a particular object.

What you will learn:

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.



Vocabulary

**Materials** Materials are what objects are made from.

**Suitability** Suitability means having the properties which are right for a specific focus.

**Properties** This is what a material is like and how it behaves (soft, stretchy, waterproof).

**John McAdam** Was a Scottish engineer who experimented with using new materials to make roads. He invented 'macadamisation'

**John Dunlop** A Scottish inventor who invented air-filled rubber tyres.

**Charles Macintosh** Scottish inventor who invented waterproof fabrics.



National Curriculum Objectives:

- To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

