## Buglawton Primary School <br> Be the Best We Can

## Topic: Everyday Materials

Subject: Science
Year: 2
Term: Spring

## What should I already know?

- Distinguish between an object and the material from which it is made.
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- Describe the simple physical properties of a variety of everyday materials.
- Compare and group together a variety of everyday materials on the basis of their simple physical properties.
- What will I know and by the end of the unit?
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
- What will I be able to do by the end of the unit?
- Can name an object, say what material it is made from, identify its properties and make a link between the properties and a particular use
- Can label a picture or diagram of an object made from different materials
- For a given object can identify what properties a suitable material needs to have
- Whilst changing the shape of an object can describe the action used
- Can use the words flexible and/or stretchy to describe materials that can be changed in shape and stiff and/or rigid for those that cannot
- Can recognise that a material may come in different forms which have different properties
- Can sort materials using a range of properties

| Key Knowledge |  |
| :---: | :---: |
| John McAdam | John McAdam was a Scottish engineer who experimented with using new materials to build roads, inventing a new process called 'macadamisation'. |
| John Dunlop | John Dunlop was a Scottish inventor who invented the air-filled rubber tyre. It was originally invented in 1887 to use with bicycles, and then became very useful when automobiles were developed. |
| Charles Macintosh | Charles Macintosh was a Scottish inventor and chemist who invented waterproof fabrics in 1818. The Mackintosh raincoat was introduced in 1824. |
| Macadamisation | Macadamisation was the name given to John McAdam's construction process of building roads. The name tarmac means a road made like this using tar. |




## Agreed Real-life outcome:

- Can explain using the key properties why a material is suitable or not suitable for a purpose
- Can begin to choose an appropriate method for testing a material for a particular property

