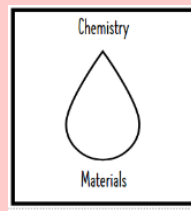


# Chemistry

## Materials



Year 1/2 – Autumn 1

### What should I already know?

Objects are made from different materials such as wood, metal and plastic.

I can describe how something feels – hard, soft, rough or smooth.

### What will I learn?

To name and identify a variety of everyday materials.

To describe the properties of materials (waterproof, flexible, smooth, strong etc.)

To sort and group objects based on their properties.

That some objects can be changed using physical force (twisting, stretching, bending and squashing).

Why certain materials are more suitable than others for different things (using my knowledge of properties).

### Tier 3 Vocabulary

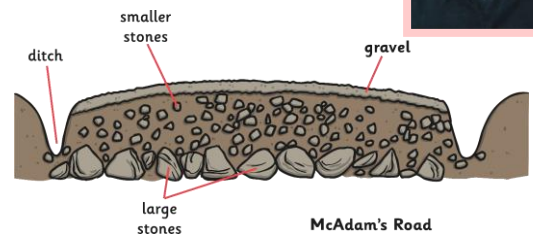
Materials	Flexible
Properties	Rigid
Purpose	Fragile
Suitable	



### Notable Scientist – John McAdam

Born in Scotland, 1756

John McAdam invented a new process called 'macadamisation', which created smooth hard roads.



Tar was later added to macadam roads to stabilise them. This became known as tarmac, which is now commonly known as tarmac.



### Types of Enquiry

Observing changes over time

Pattern seeking

Identifying groups & classifying

Comparative and Fair testing

Research

### Working Scientifically Skills

#### Plan

I will ask questions about the materials I am exploring

#### Do

I will sort objects into groups based on the materials they are made from and their properties

I will set up a comparative test to see which materials will be most suitable for a purpose

#### Record

I will record my findings from the comparative test I carry out

#### Review

I will review which materials are most suitable for a given purpose

### How will I be a scientist?