



# Year 2 Science Knowledge Organiser    Topic- Everyday Materials    Unit- Chemistry

## Key Vocabulary

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| <b>Material</b>   | Materials are what objects are made from.                                        |
| <b>Properties</b> | What the material is like and how it behaves (soft, stretchy, waterproof)        |
| <b>Waterproof</b> | Does not let water or liquid pass through.                                       |
| <b>Fabric</b>     | Material made from knitting.                                                     |
| <b>Wood</b>       | A material made from trees.                                                      |
| <b>Metal</b>      | A material with a shiny appearance usually hard and are good conductors of heat. |
| <b>Plastic</b>    | A type o material that can be molded into shape whilst soft.                     |
| <b>Glass</b>      | a type of material that is hard and usually transparent or translucent.          |
| <b>Twisting</b>   | Moving an object by turning your hands in opposite directions.                   |
| <b>Squashing</b>  | Moving an object by pushing both hands together.                                 |
| <b>Bending</b>    | Moving an object by grabbing both ends and brining it inwards.                   |

## Changing materials

|                                                                                                         |                                             |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>squashing</b><br>  | Clay can easily be pushed and pulled.       |
| <b>bending</b><br>    | Foil is bendy and waterproof.               |
| <b>twisting</b><br>   | This plastic bottle's shape can be changed. |
| <b>stretching</b><br> | A balloon is very flexible.                 |

## Significant scientists

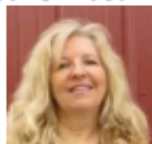
**John Loudon McAdam**  
(1756-1836)



John Loudon McAdam was a Scottish engineer who modernised the way we build roads.

He was the inventor of tarmac road surfacing – commonly called tarmac.

**Julie Brusaw**



Julie is one of the inventors of Solar Roadways. Solar roadways use solar powered road panels to form a smart roadway.

| Material                                                                                                  | Properties                              | Uses                                                                                                       |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>wood</b><br>        | opaque<br>hard<br>strong                | <b>table</b><br>        |
| <b>metal</b><br>       | shiny<br>smooth<br>reflective           | <b>fork</b><br>         |
| <b>plastic</b><br>     | waterproof<br>bendy<br>translucent      | <b>water bottle</b><br> |
| <b>glass</b><br>       | transparent<br>waterproof<br>hard       | <b>window</b><br>       |
| <b>brick</b><br>       | hard<br>rough<br>dull                   | <b>wall</b><br>         |
| <b>rock</b><br>       | strong<br>hard<br>rigid                 | <b>fireplace</b><br>   |
| <b>paper</b><br>     | tears easily<br>translucent<br>flexible | <b>book</b><br>       |
| <b>cardboard</b><br> | dull<br>non-reflective<br>opaque        | <b>boxes</b><br>      |
| <b>fabric</b><br>    | flexible<br>Soft<br>absorbent           | <b>clothes</b><br>    |