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|  **Creech St Michael Primary School** |
| **Science:** | **Uses of Everyday Materials** | **Year**  2  |

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| **Background understanding (what I should 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.
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| **What I will know by the end of the unit…** |
| **I can identify and compare materials.****I know why materials are suitable for a specific use.** |  |
| **I know how some materials can be changed** |  |

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| **Key vocabulary** |
| **Absorbent** | It soaks water up. |
| **Flexible** | It can bend without breaking. |
| **Hardwearing** | It can last a long time. It does not wear out quickly. |
| **Lightweight** | It is built lightly. |
| **Materials** | What an object is made from. |
| **Opaque** | You cannot see through it. |
| **Properties** | What a material is like (soft, stretchy) |
| **Stiff** | It does not bend easily and is strong. |
| **Suitability** | It is the right thing to use. |
| **Transparent** | It is see-through. |
| **Waterproof** | It keeps water out. It keeps it dry. |

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| **Who: (famous people)** |
|  | John McAdam was a Scottish engineer who used new materials to build roads. He invented a process called ‘macadamisation’ which was used across the world. |
|  | John Dunlop was a Scottish inventor who invented the air-filled rubber type in 1887. He first used rubber to make tyres for his son’s tricycle.  |
|  | Charles Macintosh was a Scottish inventor who invented waterproof fabrics in 1818. The Macintosh raincoat was created in 1824.  |

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| **Possible Scientific Enquiry Questions…** |
| **Observing over time**  | **What happens to the water when you add drops to the material?** |
| **Pattern seeking** | **Are all shiny materials waterproof?** |
| **Identifying, classifying and grouping** | **How can you sort and group these materials?** |
| **Fair testing**  | **Have we used the same amount of water? Is the material the same size?** |

**Scientific skills and enquiry (Year 1 and 2)**

* asking simple questions and recognising that they can be answered in different ways
* observing closely, using simple equipment
* performing simple tests
* identifying and classifying
* using their observations and ideas to suggest answers to questions
* gathering and recording data to help in answering questions.