**Materials and their uses**

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

**Uses of everyday materials – Year 2**

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| **Key vocabulary - properties of materials** | | |
| **transparent** | Completely see-through | |
| **translucent** | Let some light through but not completely see-through. | |
| **opaque** | Not able to be seen through. | |
| **flexible** | Bends easily without breaking. | |
| **rigid** | Unable to bend or be forced out of shape. | |
| **reflective** | Reflects light easily. | |
| **non-reflective** | Does not reflect light. | |
| **absorbent** | Able to soak up liquid easily. | |
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| **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 tarmacadam 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. | |

**Changing materials**

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| **squashing** |
| **bending** |
| **twisting** |
| **stretching** |



**This chair has a fabric seat because it is soft.**

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| **It has wooden legs that are rigid and strong.** |