



## Science – Year 2 Everyday Materials

(Previous knowledge – refer to  
Knowledge Organiser Year 1 - Materials)

### Vocabulary

| Tier 1  | Tier 2   | Tier 3      |
|---------|----------|-------------|
| Wood    | Object   | Property    |
| Plastic | Material | Waterproof  |
| Metal   | Flexible | Absorbent   |
| Glass   | Rigid    | Transparent |
| Fabric  | Suitable | Opaque      |
| Stone   | Compare  | Translucent |

### Useful Resources



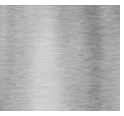











- Different materials to observe, feel and investigate
- 'Feely' bags to explore different textures
- Playdough and/or modelling clay to squash, bend, twist and stretch

Key Scientists:

### John Dunlop (1840-1921)

– was a Scottish inventor who created the first rubber tyres for his child's tricycle and developed them for use in cycle racing.



| Material  | Properties   | Uses   |
|---|--|--|
| Wood      | <ul style="list-style-type: none"> <li>• Opaque</li> <li>• Hard</li> <li>• Strong</li> </ul>           | Table         |
| Metal     | <ul style="list-style-type: none"> <li>• Shiny</li> <li>• Smooth</li> <li>• Reflective</li> </ul>      | Cutlery       |
| Plastic   | <ul style="list-style-type: none"> <li>• Waterproof</li> <li>• Bendy</li> <li>• Translucent</li> </ul> | Water bottle  |
| Glass     | <ul style="list-style-type: none"> <li>• Transparent</li> <li>• Waterproof</li> <li>• Hard</li> </ul>  | Window        |
| Rock     | <ul style="list-style-type: none"> <li>• Hard</li> <li>• Rough</li> <li>• Dull</li> </ul>              | Fireplace    |
| Paper   | <ul style="list-style-type: none"> <li>• Translucent</li> <li>• Flexible</li> <li>• Thin</li> </ul>    | Book        |
| Fabric  | <ul style="list-style-type: none"> <li>• Flexible</li> <li>• Soft</li> <li>• Absorbent</li> </ul>      | Clothes     |

### Key Questions/Facts

#### What are some of the different properties of materials?

- Transparent: Materials that let through the light so you can clearly see through.
- Opaque: Materials that do not let through the light so you cannot see through.
- Translucent: Materials that let through some light so you can see through it but not clearly.

#### How can we change the shape of some materials?

- Squashing: clay can be easily pulled and pushed.



- Bending: materials like foil can be bent into different shapes.



- Twisting: A plastic bottle can be twisted.



- Stretching: A balloon is very flexible and can be stretched.

