

Year 1/2 Knowledge Organiser Science –Materials

Vocabulary

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| 1 | object | An object is something you can see and touch . It is a thing that has a shape, size, and can be made from different materials. |
| 2 | materials | A material is what something is made of . |
| 3 | properties | Properties are words that describe what something is like. They tell us how a material looks, feels, or acts . |
| 4 | natural | Natural means something that comes from nature . It is not made by people . |
| 5 | flexible | Flexible means bendy . If something is flexible, it can bend without breaking . |
| 6 | waterproof | Waterproof means water cannot go through it . If something is waterproof, it stays dry even when it gets wet. |
| 7 | transparent | Transparent means you can see through something. |
| 8 | translucent | Translucent means you can see some light through it , but not everything. It is not completely clear . |
| 9 | opaque | Opaque means you cannot see through something. |
| 10 | absorbent | If something is absorbent , it can soak up liquids like water or juice. |

Types of materials

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| plastic | water bottles, rulers, toys, packaging |
| metal | coins, paper clips, screws, keys, taps |
| glass | windows, cups, marbles |
| wood | tables, cupboards, doors, pencils. |
| fabric | clothes, blankets, curtains |

Key knowledge

Objects are items that can be touched but are not living. Every object is made from a material. For example, marbles are made from glass; curtains are made from fabric.

Every material has properties.

The properties of wood are: strong, hard, natural.

The properties of plastic are: flexible, waterproof, lightweight

The properties of glass are: transparent, smooth, shiny

The properties of fabric are: soft, flexible, absorbent

The properties of metal are: strong, shiny and cold to touch

Depending on their properties, objects can bend, stretch, squash and twist.

Objects materials are decided based on their properties.

For example, a window is made of glass because it is hardwearing, you can see through it (transparent) and it lets light through.

Doors are made of wood because it is strong and rigid.

Toys are made of plastic because it comes in lots of colours, and it is hardwearing.