Knowledge Organiser: Uses of everyday materials

Careers connected to materials: materials engineer, road designer, road engineer


| material | anything that is used to make <br> something else |
| :--- | :--- |
| property | the way in which a material is <br> described |
| obstacle | something that blocks the <br> way |
| construction | the process of building <br> something |
| stretchy | something that can pull apart <br> without breaking; elastic |
| elastic | something that can pull apart <br> without breaking; stretchy |
| force | a pressure applied to <br> something that makes it <br> change shape or move |
| bend | to shape or force something <br> into a curved shape |

Year 1

- I can tell the difference between an object and the material from which it is made
- I can identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- I can describe the simple physical properties of a variety of everyday materials
- I can compare and group together a variety of everyday materials on the basis of their simple physical properties


## What I will learn now:

## Year 2

- I can identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- I can find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching


## What I will learn next:

## Year 5

- I can compare and group together everyday materials on the basis of their properties
- I know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- | can use knowledge of solids, liquids and gases to decide how mixtures might be separated
I I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials
- I can demonstrate that dissolving, mixing and changes of state are reversible changes
I I can explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda

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