

Working scientifically focus

Asking and exploring questions

Scientific enquiry

Making predictions

Observing and measuring

Observing and measuring

Concluding and evaluating

How can changes to materials be reversed?



Key learning

- of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
- give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
- demonstrate that dissolving, mixing and changes of state are reversible changes
- 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.

- compare and group together everyday materials on the basis





Materials - Our Learning Journey

Year Identify materials and their properties

Year 2 Compare suitability of materials to their uses and the impact of changing their shape.

Year 3 Compare rocks and 1. soil and describe fossil formation

Year 4 Observe and measure changes of

Year 5 Reversible and irreversible changes





Ethics

What are the implications of making everything out of plastic?