

Science Knowledge Building

Know that some changes are not always reversible and explain why	Know that dissolving and mixing can often be reversible and, therefore, helpful when separating solids, liquids or gases	Know how to use comparative testing to sort materials and give evidence for placing materials in certain categories	Know language that connects to other subjects to support scientific knowledge e.g. 'dredging', 'pollution'	Know the process of recycling paper or glass and what can be made from these substances	Know how to record findings correctly, using mathematical diagrams (Maths)
Know that, while some materials can be changed and made into new materials, others cannot	Know how adaptations can be used in an investigation to separate solids and liquids	Know how to use a range of recording methods when sorting and analysing materials	Know and understand the terms 'recycling' and 'reusing'	Know that recycling can change a material so it can be used for something else	Know how use ratios to create solutions (Maths)
Understand that numerous factors can affect or prevent change	Know what makes a good methodology and explain how adaptations can lead to improvements	Identify, analyse and explain findings to support or dismiss theories or arguments	Know how to use a range of scientific vocabulary in various contexts	Know that science has implications for world issues and that it can be used for good or bad	Understand how their own STEM skills can benefit future science work in school and beyond
Processes and Changes	Methods	Observing and Recording	Scientific Vocabulary	Uses and Implications	Cross-Curricular (STEM)

Global Warning