

Things you already know

- The role of condensation and evaporation in the water cycle
- That magnets attract and repel different materials
- Some materials will dissolve in liquids to form solutions
- Ways to separate mixtures using your knowledge of solids, liquids and gases

Key Vocabulary

Thermal	Something caused by or related to heat
Conductivity	A material's ability to transfer heat or electricity
Variable	Something that can change or be changed
Reversible/ Irreversible change	A change that can or can't go back to its original state

- You will know the uses and suitability of a range of materials
- You will know that some materials are thermal conductors and insulators
- You will investigate mixtures and solutions that form reversible and irreversible changes
- You will know that some changes create new materials



Scientific skills you already have

- How to plan different types of scientific enquiries to answer questions
- Conduct simple investigations to demonstrate that dissolving, mixing and changes of state can be reversible changes



New Scientific Skills

- To be able to demonstrate the process of dissolving
- To be able to classify materials based on their thermal conductivity
- To be able to observe the processes that need to happen for a reversible change to occur

Enrichment opportunities

Explore changing materials with these exciting resources and clips

