

Y5 Autumn Science:

Properties and Changes of Materials

Enquiry question: How could I separate materials and what are reversible and irreversible changes?

Key Vocabulary

Thermal/electrical insulator/
conductor

change of state

mixture

dissolve

solution

soluble

insoluble

filter

sieve

reversible/non-reversible
change

burning

rusting










Scientific enquiry question:


Classifying and Identifying

Can a mixture be reversed?

How can I separate a mixture?

Which materials are good conductors?

Electrical Conductors	Electrical Insulators	Thermal Conductors
 Silver	 Wood	 Gold
 Copper	 Rubber	 Steel
 Sea water	 Oil	 Diamond



Reversible change

Core Knowledge

Materials have different uses depending on their properties and state (liquid, solid, gas). Some materials will dissolve in a liquid and form a solution while others are insoluble and form sediment. Mixtures can be separated by filtering, sieving and evaporation. Some changes to materials such as dissolving, mixing and changes of state are reversible, but some changes such as burning wood, rusting and mixing vinegar with bicarbonate of soda result in the formation of new materials and these are not reversible.

Concepts



Significant Roles

Pharmacist