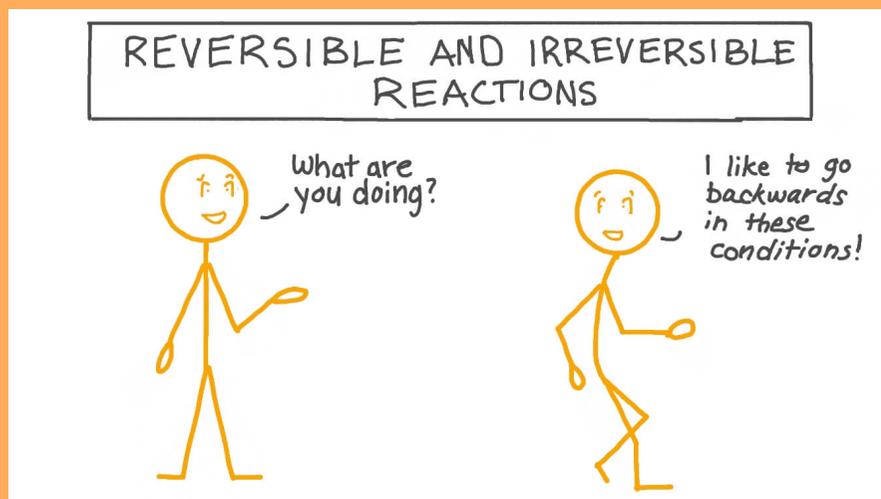


Reversible and Irreversible changes

LO: To understand the difference between reversible and irreversible changes.





Hotham

What do you
know already?

Reversible and Irreversible Changes





Regis

What do you
know already?

Reversible and Irreversible Changes





Wheatland

What do you know already?

Reversible and Irreversible Changes

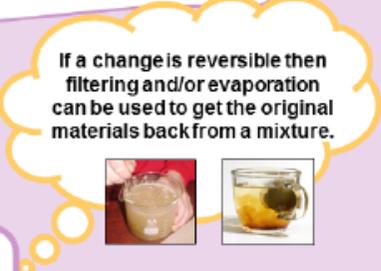
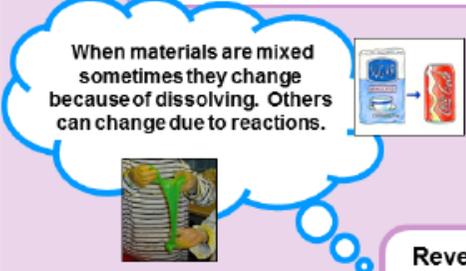


Reversible and Irreversible changes

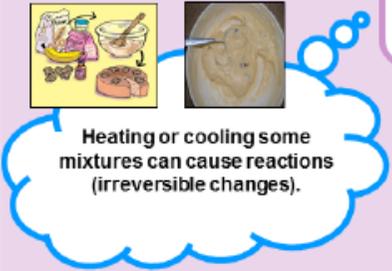
heating, cooling, freezing, solidify, melt, evaporate, condense, temperature, solute, solvent, dilute, concentrated, saturated solution, dissolved

separating mixtures (filtering, sieving, evaporating), volume, weight, reversible, irreversible, react, reaction, acid, bicarbonate of soda, burning

When materials are mixed sometimes they change because of dissolving. Others can change due to reactions.



If a change is reversible then filtering and/or evaporation can be used to get the original materials back from a mixture.



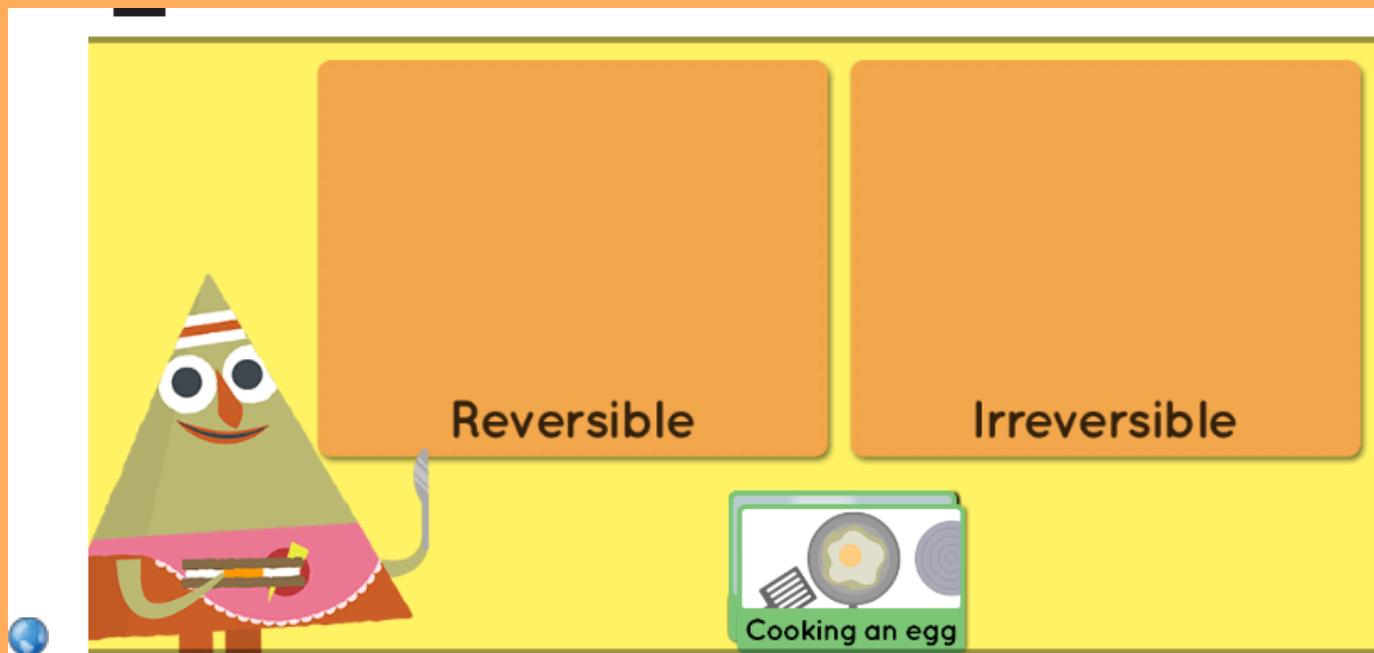
Reversible & Irreversible Changes
Year 6

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Watch this video about reversible and irreversible changes.

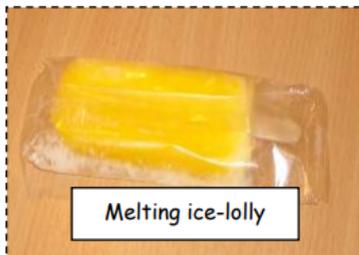


Let's play this game together.



Reversible or Irreversible Changes?

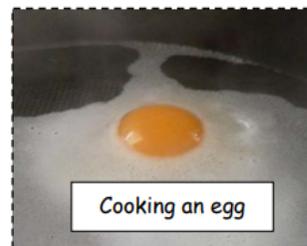
PoS - demonstrate that dissolving, mixing and changes of state are reversible changes
NaG - pupils should explore reversible changes, including, evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes.
WS - pupils should identify scientific evidence that has been used to support or refute ideas and arguments



Melting ice-olly



Burning wood



Cooking an egg



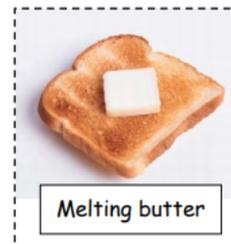
Melting ice-cream



Boiling water



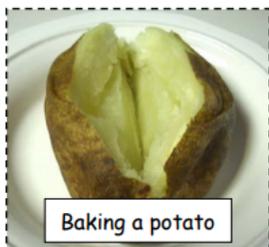
Melting chocolate



Melting butter



Cooking meat



Baking a potato

Look at the foods and liquids in the pictures and use the table to predict whether any of the changes occurring due to heating are **reversible** or **irreversible**. Test your predictions (where possible) to find out whether or not your predictions were accurate.



Melting toffee

Reversible and Irreversible changes

Food/Liquid	Prediction - are the changes reversible or irreversible after heating?	Results - were the changes reversible or irreversible after heating?	Was your prediction accurate?
Melting ice-lolly			
Burning wood			
Cooking an egg			
Melting ice cream			
Boiling water			
Warming chocolate			
Melting butter on toast			
Cooking meat			
Baking a potato			
Melting toffee			

- a) If each of the above were placed in a pan or in a very hot oven to cook and left, which could catch fire?
- b) Which are unable to catch fire?
- c) When something catches fire and burns, is this change reversible?

Attachments

circulatory_system (1).ppt