Y5 Science – Reversible and Irreversible Changes

Changes

- Changes can occur when different materials are mixed.
- Some material changes can be reversed and some cannot.
- Changes to materials can happen at different rates.

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Reversible Changes

• Dissolving, mixing, freezing, melting and boiling are all reversible changes.



Vocabulary	
Dissolved	When a substance is mixed with a liquid and the substance has disappeared.
Solution	A mixture that contains two or more substances combined
Insoluble	A substance that will not dissolve.
Filter	To remove dirt or other solids from liquids or gases. A filter can be made of paper, charcoal, or other material with tiny holes in it.
Sieve	A utensil with meshes or holes to separate finer particles from coarser ones or solids from liquids.
Evaporate	To turn from liquid into gas (vapour)
Condense	Turning water vapour or steam back into a liquid (water)
Melting	To change from a solid to a liquid state through heat or pressure
Reversible	Able to turn or change back.
Irreversible	Not able to change or turn back.

Irreversible Changes

- In an irreversible change, new materials are always formed.
- Irreversible changes usually involve heating, mixing or burning.



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What is Dissolving?

- When the particles of a solid mix with the particles of a liquid, this is called dissolving.
- The result of dissolving is a **solution.**

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- Materials that dissolve are soluble.
- Materials that do not **dissolve** are **insoluble**.





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