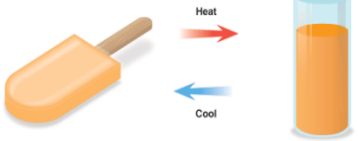
What should I already know?

- A variety of everyday materials including wood, plastic, glass, metal, water and rock.
- The physical properties of a variety of everyday materials (including those that are transparent) and to compare and group materials on the basis of these properties
- Compare and group materials together, according to whether they are solids, liquids or gases.
- Some materials change state when they are heated or cooled and the temperature at which this happens.

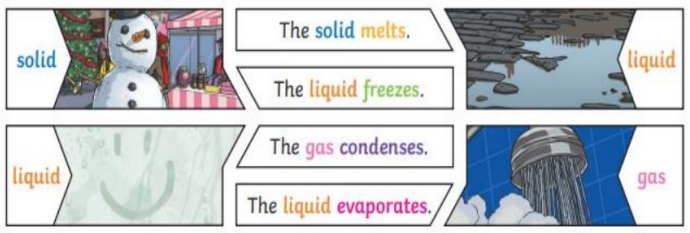
What will I learn in this unit?



Reversible changes
Reversible changes such as mixing and dissolving can be reversed.

Irreversible changes
Irreversible changes often result in a new product being made from the old materials.(reactants). For example, burning wood produces ash and this cannot be turned back into wood.

Dissolving
A solution is made when solid particles are mixed with liquid particles. Materials that will dissolve are known as soluble. Materials that won't dissolve are known as insoluble. A suspension is when the particles don't dissolve.



WEMBLEY PRIMARY SCHOOL

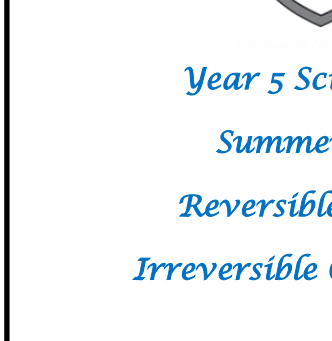
Year 5 Science

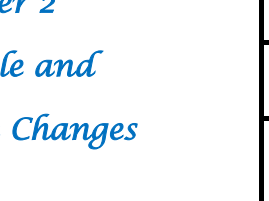
Summer 2

Reversible and Irreversible Changes

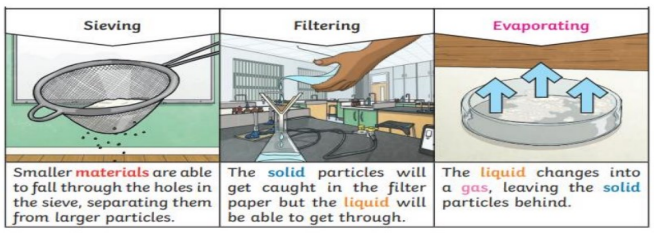
Science Focus: Biology

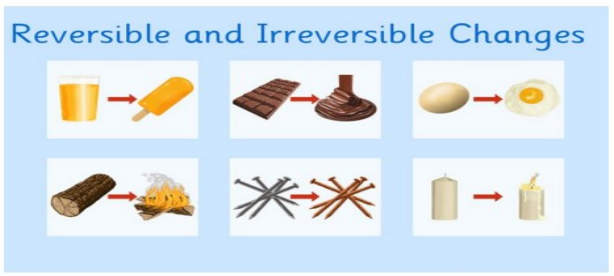
Sustainability links: Plastic Pollution





Reversible changes, such as mixing and dissolving solids and liquids together, can be reversed by:





Vocabulary

Word	Definition
Chemical reaction	A process in which one or more substances are converted to one or more different substances.
Irreversible	A permanent change that cannot be undone.
Evaporate	When water changes from a liquid to a gas.
Filter	A technique that is used to separate a solid that has not dissolved in a liquid.
Rust	A red-orange flaky substance which occurs on metals when they have been exposed to air and water.
Mixture	A material made up of two or more different substances.
Soluble	Capable of being dissolved in a liquid
Dissolve	When a solute mixes completely with a liquid.
Reversible	A physical change that can be undone
Solute	A material that is dissolved in a solvent.
Solvent	A material (usually a liquid) that can dissolve other materials.
Solution	A mixture of two or more substances that stays evenly mixed .

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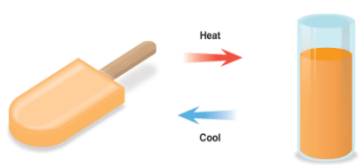

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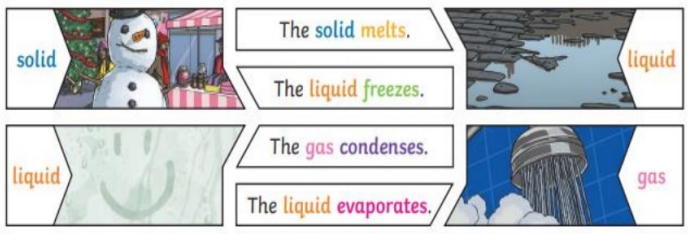

WEMBLEY PRIMARY SCHOOL

Year 5 Science

Summer 2

Reversible and Irreversible Changes

Science Focus: Biology

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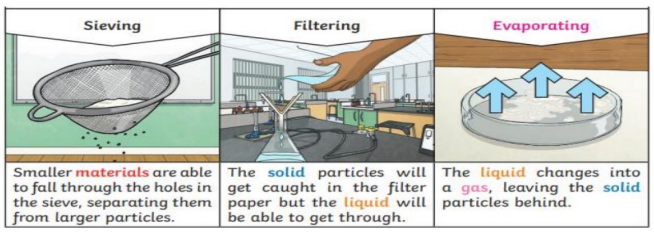

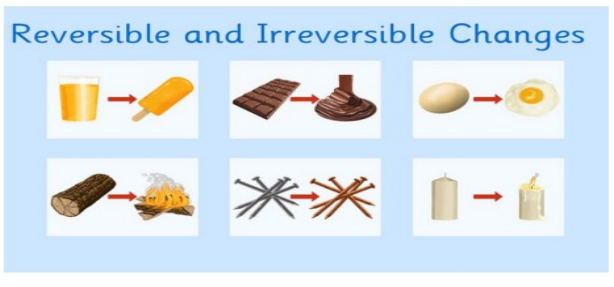

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