

St Leo's and Southmead Catholic Nursery and Primary School

# Year Five

# Science Knowledge Organiser

Autumn Term Amazing Activities

Experiment to demonstrate irreversible changes Design a product based on its properties

#### Key Concepty

## Comparing & Grouping materials-that

materials can be grouped by their properties (is it hard or soft?) or by more than one of their properties (is it hard and magnetic?)

Recognise the properties of materials we can compare e.g. hard & soft, transparent & opaque

K now that some materials will dissolve in liquid to form a solution whereus some liquids from a mixture (no dissolving has taken place)

Mixtures can be separated by sieving and/or filtering

Solutions can be separated through evaporation

What a reversible change is, that it is a change that does not last forever e.g. water turning to ice

What an irreversible change is that it lasts forever and usually involves heating, e.g. flour, brutter and egg mixture being baked to form a cake is an irreversible change

# Key Vocabulary

Properties & Changes in Materials

<u>Key vocaouary</u>	
Vocabulary	Definition
Soluble	Can be dissolved like
	jugar and coffee granules
Insoluble	cannot be dissolved like
	provide
Transparent	You can see through it like plass
Ородие	You cannot see through it
0.500	like cement, wood
Electrical	Let) electricity pass easily
Conductor	through it, like copper
	Wore
Electrical	Does not let electricity flow
Ingulator	through it like weeder playtic
Thermal	Let) heat pays through it
conductor	easily, like a metal kettle
Thermal	does not letheat pass
ingulator	through it easily, like a wooden handle
Magnetto	1) attracted to a magnet
	(Remember not all metals
	are maenelle)
Dissolved	To be incorporated into a
5334504500	liquid so that it forms a solution
Evaperation	When a liquid is turned
	into a gas to an increase
	in Temperature

#### Skills

Using test results to make predictions to set up comparative & fair tests.

Flanning different types of enquiries to answer questions, recognising & controlling variables

Recording data & Reporting & presenting findings



Sugar dissolves in the water making a sugar solution. You cannot see the sugar but it is still there in tiny particles.



The water evaporates.
This means that it becomes water vapour. The process will be quicker if the water is heated.



Once all the water has evaporated, the sugar is left at the bottom of the beaker. This is because sugar cannot evaporate.

### Curriculum Links

Maths—measurement, Speaking & listening.