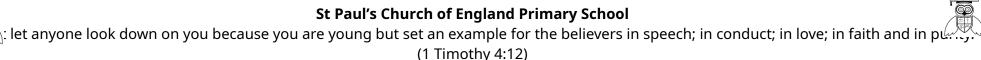
St Paul's Church of England Primary School



Title: Material Changes - Chemistry Subject: Science Year group: 5 Term: Autumn 2

What should I know?

- That objects are made of many different materials
- Materials have different properties and different uses
- How to compare materials
- How to use properties of materials to identify whether they are solid, liquid or gas
- How to group materials based on whether they are solids, liquids or gases

Facts I will learn ...

- How some materials will dissolve in liquid and how to recover a substance
- How mixtures can be separated through filtering, sieving and evaporating
- That some changes of materials are reversible and some are not
- What factors impact changing materials
- How boiling, freezing and melting can change a material



Key questions ...

- What happens if we mix different solids together? Can we get them back?
- What happens if we mix solids and liquids together? Does it dissolve?
- How can we separate them? Can we get it back?
- Can I make something dissolve quicker?
- Can we always get back what we started with?
- What happens when we mix different things?
- What happens when we burn things?
- What happens when we cook things?
- Why do some things rust?

Key Skills	Experiences that school will provide:	Key vocab and definition	
Explaining how a number or processes	A visit to a raw material plant	Solution	A liquid mixture.
(filtering/dissolving/evaporating) workIdentifying what changes are		Substance	A particular type of mixture with
reversible and which are not and			certain properties.
explaining why		Mixture	A substance made
			by mixing other
			substances
			together.
		Dissolve	Cause something
Web links	Experiences that could be provided at		to become a
	home		liquid.
https://www.bbs.co.uk/bitosizo/subjects/z?pf		Filter	An action used to
https://www.bbc.co.uk/bitesize/subjects/z2pf b9g (the materials area)	Cooking/baking – watching what		remove solid
bod (the materials area)	happens to the materials and		particles from a
https://www.topmarks.co.uk/	talking about whether you can get		liquid or gas.
Interactive.aspx?cat=63	all the starting ingredients/items back	Evaporate	Turn something
interactive.uspx.cuc os	Dack		from liquid into a
			vapour.
		Condense	Make something
			more
		N.A I.	concentrated.
		Melt	Make something
			liquefied using
		Compusto	heat.
		Separate	Cause something
			to move or be
		Donation	apart.
		Reaction	Something done
			in response to an

	event.
Product	A substance that
	is created.
Burn	Damage, injure or
	spoil something
	by heat.
Rust	A coating that
	appears on iron
	or steel when
	mixed with a
	liquid.
Reversible	Able to be turned
	the other way
	round E.G.
	melting ice cubes
Irreversible	Unable to be
	turned the other
	way round E.G.
	making a cake