



let anyone look down on you because you are young but set an example for the believers in speech; in conduct; in love; in faith and in purity.
(1 Timothy 4:12)

Subject: Science	Year group: 5	Term: Autumn 2	Title: Material Changes - Chemistry
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 Reversible and Irreversible Changes	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... - Explaining how a number of processes (filtering/dissolving/evaporating) work - Identifying what changes are reversible and which are not and explaining why	Experiences that school will provide: A visit to a raw material plant	Key vocab and definition	
Web links https://www.bbc.co.uk/bitesize/subjects/z2pfb9q (the materials area) https://www.topmarks.co.uk/Interactive.aspx?cat=63	Experiences that could be provided at home... Cooking/baking – watching what happens to the materials and talking about whether you can get all the starting ingredients/items back	Solution	A liquid mixture.
		Substance	A particular type of mixture with certain properties.
		Mixture	A substance made by mixing other substances together.
		Dissolve	Cause something to become a liquid.
		Filter	An action used to remove solid particles from a liquid or gas.
		Evaporate	Turn something from liquid into a vapour.
		Condense	Make something more concentrated.
		Melt	Make something liquefied using heat.
		Separate	Cause something to move or be 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