1.1	Castlefield School - Science					
Castlefield School	Topic: Properties & Changes of Materials (	2)	Year: Five	Theme: Prop	perties & Changes of Materials	Strand: Chemistry
Key Concepts				Key Vocabulary		
What are reversible & irreversible changes?       Freezing         • A reversible change is a change which can be       Water			condensation	Small drops of water which form when water vapour or steam touches a cold surface such as a window.		
reversed to produce the original ingredients or components e.g. the heating or freezing of water.				evaporation	To turn from liquid into gas; pass away in the form of vapour	
• An irreversible change is a change where you cannot get the original components back e.g. frying an egg. There is no way to put the egg back into its shell.				filtering	A device used 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.	
<ul> <li>How to separate materials?</li> <li>Some materials can be separated after they have been mixed based on their properties - this is called a reversible change.</li> <li>There are many ways to separating materials:</li> <li>Using magnets</li> <li>Using filters</li> <li>Using a sieve</li> <li>Using evaporation.</li> </ul>			ted, this is an 💊	gas	a form of matter that is neither liquid nor solid. A gas rapidly spreads out when it is warmed and contracts when it is cooled.	
			irreversible change.	irreversible	impossible to reverse, turn back, or change	
			5	magnetic	having to do with magnets and the way they work	
				melting	to change from a solid to a liquid state through heat or pressure	
				permeable	of a substance, being such that gas or liquid can pass through it	
What role does evaporation and condensation have within reversible changes?				rate	the speed with which something happens	
				reversible	able to turn or change back	
ice			soluble	able to be dissolved.		
			water vapour	solution	a mixture that contains two or more substances combined evenly	
icc	melting	condensa	on	thermal	relating to or caused by heat of temperature	or by changes in
Working Scientifically Skills				Famous Scientists		
?? que: Usir cond	stions. Ing scientific language to draw clusions.	controllin necessary Recording neasurem	cording data, taking repeat casurements where necessary and	Alfred Nobel (1833 – 1896) was a Swedish chemist, engineer, inventor, businessman, and philanthropist. He held 355 different patents, dynamite being the most famous. The Nobel Prizes became an extension and a fulfilment of his lifetime interests.Antoine-Laurent de Lavoisier (1743 – 1794) Lavoisier is most noted for		
	swer questions, separating opinion	calculatin	ig a mean.	his discovery of the role oxygen plays in combustion. He recognized and named oxygen (1778) and hydrogen (1783)		