## Leamington Primary Science Knowledge Organiser – Year 5 – Materials - Strand – Chemistry

What I should	What I will learn	Important words to help me. (vocabulary)		Ideas for Scientific			
already know			Enquiry				
<b>,</b>							
Fingerprints are left	Reversible/irreversible changes: Difference			Secondary sources			
on everything you	between an Irreversible Change and a Reversible						
touch.	Change. Irreversible changes can't be undone,	Alkali	Alkali has a ph more than 7.	Researching the different			
	however, a <b>reversible change</b> means that the	Acid	Acidic liquid with a ph of less than 7.	types of fingerprints to			
Water evaporates.	original substance can be retrieved. This means that	7 10.0	The same and a property of the same and a same a same a same a same a same a	find the most common			
Chocolate can melt	the original substance may look or feel different but	Bicarbonate	An alkali that reacts with acids.	and rarest.			
	the materials are not new. An example: wax when a	of soda		Comparative test			
and freeze again.	candle melts may be in a different shape but it is still	Dissolve	(With reference to a solid) become or cause to become incorporated	<u>comparative test</u>			
	there when it cools (solidifies). However, the candle		into a liquid so as to form a solution.	Finding out if certain			
	wick is irreversible, as once it's burnt, it cannot be	Dusting	The process of <b>dusting</b> for <b>fingerprints</b> involves various methods	solids evaporate or			
Interesting	retrieved.		intended to get the particles of the powder to adhere to residue left by	dissolve in water.			
Facts	<b>Dissolve:</b> (with reference to a solid) become or cause	Evaporate	friction ridge skin on the fingers.  Turn from liquid into vapour.				
The <b>Arch</b> is the rarest	to become incorporated into a liquid so as to form a	Evaporate	Turn from fiquid into vapour.	Fair test			
type of fingerprint. In	solution. <b>Evaporate:</b> turn from liquid into vapour.	Insoluble	Does not dissolve in a liquid.	See which liquid reacts			
fact, about 5% of the	Some materials can dissolve in water - this makes a	solution		most with bicarbonate of			
world's population	solution (it's new!) If a solid dissolves in water and the	Irreversible	A <b>change</b> is called <b>irreversible</b> if it cannot be changed back again. In	soda.			
have this fingerprint	water appears clear, it is called a soluble solution. If		an <b>irreversible change</b> , new materials are always formed. Sometimes	Soud.			
pattern. Its lack of	you can still see the particles it is called an insoluble	D 111	these new materials are useful to us.	Observation over time			
cores, lines or deltas	solution. You can separate salt from water by boiling	Reversible	<b>Reversible changes</b> are <b>changes</b> that can be undone or reversed.  Melting, freezing, boiling, evaporating, condensing, dissolving and				
makes it unique.	the solution. The water will evaporate until it is all		also, <b>changing</b> the shape of a substance are examples of <b>reversible</b>	Observing which			
D: 1	gone. The salt will be left behind. The <b>salt</b> therefore		changes.	materials go through a			
Bicarbonate of soda reacts most with	recrystallizes and can be collected.	Solidifies	Make or become hard or solid.	reversible change, e.g.			
	Bicarbonate of soda: Bicarbonate of soda,			wax cooling and			
acids such as vinegar or coke.	or <b>baking soda</b> , is an alkali, which means it reacts	Soluble	Dissolves in a liquid.	solidifying.			
of coke.	most with acids such as vinegar and coke.	solution					
If the water in the	most with acids such as vinegal and coke.	Solution	A liquid mixture in which the minor component (the solute) is uniformly				
ocean evaporated,	Fingerprints: A latent fingerprint is		distributed within the major component (the solvent).				
salt would be left	a <b>fingerprint</b> left on a surface as a result of the oils	Ph Scale	a supplied to				
behind, as salt	and perspiration from the pores of the finger. We all	vector eps 10					
doesn't evaporate.	have unique fingerprints. Arches, loops and whorls	Acidic	Neutral Alkaline				
	are the three type of fingerprint. Three main ways of	Acidic	Aladire				
	lifting fingerprints are: UV light, dusting and fuming.						
		0 1 2 3 4 5	6 7 8 9 10 11 12 13 14				