Year 5 Science Knowledge Organiser - Materials

Key Information	Vere a bulla a su	
Reg Injointation		Vocabulary
Thermal insulators keep hot things hot	material	what something is made from.
and cold things cold.	mixture	2 or more particles in a mix.
Mixtures can be separated by sieving,	sieving	
filtering or magnetism.	steving	separates solid components by size.
The speed of evaporation increases with heat.	filtering	separates an insoluble solid from a liquid.
Solutions can be separated by	evaporation	separates a soluble solid from a liquid in a solution.
evaporation.	soluble	will dissolve in water.
Misconceptions	insoluble	will not dissolve in water.
Some people think that all metals are magnetic but only iron, steel, nickel and cobalt are magnetic.	dissolve	when a solid dissolves in a liquid and it can't be seen.
	solution	what is made when a solid dissolves into a liquid.
Some people think that when a solid	irreversible change	when a new compound is formed by chemical reaction and the change is not reversible.
dissolves it has disappeared but it is still		5
there, you just can't see it!	reversible change	physical changes which can be undone or reversed.
Some people think that melting and dissolving are the same thing but	freezing	When a liquid turns to a solid.
	melting	When a solid turns to a liquid.
melting needs heat and only needs one	thermal conductor	Late heat pace through pacify
material whereas dissolving involves		lets heat pass through easily.
more than one substance.	thermal insulator	Does not let heat pass through easily.
Some people think that thermal	Mixture	

Reversible Dissolving

& mixing

Some people think that thermal insulators only keep things warm, but they actually keep hot things hot and cold things cold as the heat doesn't pass through materials very well.



