Year 5 Science - Properties of materials					
Key Vocabulary				Solvent and solute	Dissolving
SolutionASolventThSoluteADissolveWReversibleAchangebaIrreversibleAchangebaChemicalAreactionFilterFilterASolubleAInsolubleAStem SentencesF- Have they keA-How accurateR-Were the reperfor their investion	A mixture of solvent and solution (e.g. a cup of coffee)         The liquid in which a solute is dissolved (e.g. water in a cup a coffee)         A substance that is dissolved into a solvent (e.g. coffee in a cup of coffee)         When a solid is mixed into a liquid without being able to be detected by eye.         e       A change that is made to a substance which can be changed back to put the substance back in its original state, e.g. melting or freezing.         ble       A change that is made to a substance which cannot be changed back to be as it was before, e.g. burning or cooking.         l       A change where two or more substances combine to make a new one         A method of separating substances (usually solids from liquids) using paper.         A substance that can be dissolved in a solvent (e.g. sugar).         e       A substance that cannot be dissolved (e.g. sand).		bstance ; was	Solvent and source Solvent and source Solvent (e.g. water) The solvent is a liquid so it has gaps between the molecules making up the liquid. Solute (e.g. coffee) The bits of coffee are each a solid. The molecules making up the coffee are tightly packed together.	<ul> <li>When coffee is added to hot water, the heat in the water gives the coffee molecules extra energy and they begin to break up into smaller particles.</li> <li>These particles of coffee can get so small, they fit in the gaps between the water molecules.</li> <li>The solution may change colour but will no longer have any solid visible.</li> <li>If you keep adding solute, the gaps between the solvent molecules will fill with solute until there is no more room. At this point no more solute will dissolve and you will be left with undissolved solid at the bottom of the liquid.</li> <li>We call the solution saturated – meaning completely filled.</li> </ul>
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<ul> <li>Solute can be again by usi</li> <li>Adding more molecules in</li> <li>If the water gets more he evaporate.</li> <li>This will leav were dissolved) behind.</li> </ul>	ng by evaporation the removed from the solvent ing evaporation. I heat will provide all in the solution more energy. I molecules in our coffee eat, the water will we the coffee particles (that	<ul> <li>Separating by Jittering</li> <li>For mixtures such as sand and water (that won't dissolve) we can use filtering to separate the water from the sand.</li> <li>Filter paper lets liquids and solutions through but anything with particles that are too big to fit between the fibres in the paper are trapped.</li> <li>We put the paper into a funnel to stop it falling over!</li> </ul>	Sieving is a • Thu wit • Thu allu • An tra • We flor • We ren	Se method for separating large so e sieve is a barrier made from n th holes of a certain size in. e holes between the mesh or in ow objects up to a certain size y objects that are bigger than t pped behind the barrier. e use sieves in baking to make ur lumps smaller. e use sieves in the garden to nove roots and rocks from the	puruung by sieving tids from smaller solids. hesh or plastic the plastic through. hose holes or spaces are