## Year 5: Science Properties and Changes Of Materials Knowledge Mat

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Subject S	pecific Vocabulary	Information	Important knowledge
solubility	A substance is soluble if the solute (e.g. salt) can dissolve in the solvent (e.g. water) to form a solution.		I know what reversible and irreversible changes are and give examples of them.
reversible/ irreversible	A reversible change can be undone but an irreversible change cannot: a new material is formed.	Mohs Hardness Scale           The Mohs scale rates the hardness of minerals by their ability to scratch softer minerals.           Mineral         Hardness	<ul> <li>I can produce my own hardness scale and link the hardness of materials to their use.</li> <li>I can classify materials as transparent,</li> </ul>
transparency	The quality of being easily seen through.	$ \begin{array}{c} & & & \\ & & & $	<ul> <li>translucent or opaque.</li> <li>I know the terms conductor and insulator and state which types of material make the best ones.</li> </ul>
filter	A way of removing solid particles from a liquid or gas.	$ \begin{array}{c} \hline \\ \hline $	I know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
dissolve	To dissolve is defined as to become broken up or absorbed by something or to disappear into something else.	Sieving Strainer	<ul> <li>I know some of the signs that tell a chemical reaction has occurred.</li> <li>I can classify substances as acids,</li> </ul>
acid	A substance which turns litmus paper red (cabbage indicator: red or pink). They can be extremely dangerous. Diluted acids have a sharp or sour taste. E.g.,	Sand & Gravel	<ul> <li>alkalis or neutral'</li> <li>I can separate mixtures through filtering, sieving and evaporating.</li> <li>I know how to record data using a</li> </ul>
	vinegar, lemon, and fizzy drinks.	Sand	<ul> <li>table to present my results.</li> <li>I know how to take measurements, using a range of scientific equipment.</li> </ul>
alkali	A substance which turns litmus paper blue (cabbage indicator: green/yellow). They can be extremely dangerous. Diluted alkalis have a soapy feel. E.g., toothpaste, oven cleaner, and baking powder.	Filtering Beaker Containing	<ul> <li>I know how to begin to plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</li> <li>I know how to make my own</li> </ul>
separate	To divide a mixture into two or more distinct substances.	Mixture Residue Filter Paper	<ul> <li>decisions about what equipment is most suitable.</li> <li>I know how to use scientific diagrams and labels to record data and</li> </ul>
thermal	Something that is hot, retains heat, or has a warming effect.	Funnel Conical Flask	<ul> <li>support my conclusion.</li> <li>I know how to carry out a scientific enquiry, make accurate observations</li> </ul>
evaporation	Evaporation is the process by which a liquid turns into a gas.	Filtrate	and report my findings.