

Year 5 Science : Properties and Changes of Materials



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Prior Learning	<u>Sticky Knowledge</u>		Vocabulary
• I can say whether materials are solids, liquids or gases.	 I can compare and group together everyday materials based on their properties. 	Change of state	When a material changes to another form, i.e. a liquid to a solid or a gas into a liquid.
 I can compare and group materials together, according to whether they are solids, liquids or gases. I observe that some materials change state when they are heated or cooled and find out what temperature (degrees Celsius - °C) this happens at. I can identify the part played by evaporation and condensation in 	 I know that some materials will dissolve in liquid to form a solution, and how to recover a substance from a solution. I can use my knowledge to decide how mixtures might be separated. I can give reasons for the particular uses of everyday materials. I can demonstrate a reversible change. I can explain that some changes result in making new materials which is not usually reversible. 	Conductor	A material that can carry heat or electricity through it.
		Dissolve	When something solid mixes with a liquid and becomes part of the liquid, looking like it has disappeared.
the water cycle and associate the rate of evaporation with		Evaporation	The process of turning from liquid to vapour
temperature.		Flexible	Can be easily bent without breaking
<u>Ways of</u>	Changing States	Gas	An air-like substance which expands freely to fill any space available
separating materials	olid Liquid Gas	Insoluble	Something that cannot be dissolved.
filtering or sieving using magnetism evaporation	Melting Warming Evaporating 0°C 100°C Water vapour 0°C 100°C	Insulator	A material that cannot carry heat or electricity through it.
		Irreversible Change	When a material is changed and cannot be changed back, such as frying an egg or burning wood.
		Liquid	A material that flows freely but can be measured by volume e.g. water or oil
		Magnetic	A material that can be attracted by a magnet.
	Freezing Cooling Condensing	Melting	When a solid changes state into a liquid.
		Opaque	Something you cannot see through.
	Melting Freezing	Reversible Change	When a material turns into something that looks or feels different and can be changed back, e.g .
		Solid	Firm and stable in shape, not a liquid or fluid
		Soluble	Able to be dissolved, especially in water.
		Solution	A liquid with another material dissolved into it.
	Liquid Gas	Translucent	Something that allows some light through.
	Gas	Transparent	Something that is see through, such as glass.
decenting	= reversible change		
decanting			