

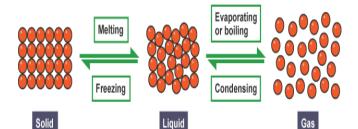
## Leybourne Ss Peter & Paul CEP Academy - Knowledge Organiser



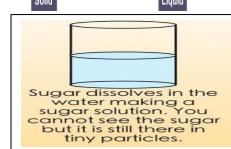
## Science Topic: Materials and their Properties Year 5 Term 1

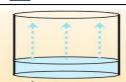
Key Knowledge		
To understand:		
•	the states of matter: solid, liquid and gas	
•	the meaning of the terms opaque, thermal,	
	transparent, flexible, insulator, soluble,	
	waterproof, conductor, translucent, shiny,	
	permeable, absorbent, rigid, natural, hard	
•	that objects are made from materials according to	
	their suitability/properties	
•	that some materials are attracted to magnets and	
	others are not	
•	that conductors let energy flow through them (for	
	example, electrical or thermal energy).	
•	that heat energy travels through solids because of	
	conduction.	
•	that materials that do not conduct heat well are	
	heat insulators.	
•	the difference between reversible and irreversible	
	change	
•	the difference between soluble and insoluble	
	substances	
•	the difference between filtration, evaporation and	
	sieving to separate substances	



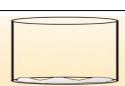


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Key Vocabulary		
Conductor	A material or device which allows heat	
	or electricity to carry through	
Dissolve	When something solid mixes with a	
	liquid and becomes part of it	
Evaporation	The process of turning from liquid to	
	vapour	
Flexible	Capable of bending easily without	
	breaking	
Gas	An air-like fluid substance which	
	expands freely to fill any space	
	available	
Insulator	A substance which does not readily	
	allow the passage of heat or electricity	
Irreversible	Cannot be reversed back to its original	
	state	
Liquid	A substance that flows freely but can	
	be measured by volume e.g. water or	
	oil	
Magnetic	Capabale of being magnetised or	
	attracted by a magnet	
Material	The matter from which a thing is or	
	can be made from	
Opaque	Not able to be seen through, not	
	transparent	
Reversible	Able to be reversed back to its original	
	state	
Solid	Firm and stable in shape, not a liquid	
	or fluid	
Soluble	Able to be dissolved, especially in	
	water	
Thermal	Relating to heat	
Transparent	Allows light to pass through so that	
	objects behind can be seen	





The water evaporates.
This means that it
becomes water
vapour. The process
will be quicker if the
water is heated.



Once all the water has evaporated, the sugar is left at the bottom of the beaker. This is because sugar cannot evaporate.