

## Broomwood Primary School Knowledge Organiser



## UKS2 Discrete Materials -Biology

	Subject Specific Vocabulary	Memorable Image	Exciting Books
Thermal	Something that is thermal is hot, retains heat, or has a warming effect.	Conductors and Insulators Conductors allow energy to pass.  Insulators slow energy transfer.	SCIENCE Nichael ROSEN ROSEN
Conductivity	Conductivity defines a material's ability to conduct electricity.	Electrical	AMAZING CITTALY
Thermal	Soemthing that is thermal is hot, retains heat, or has a		HORRÎBLE SCÎENCE
evaporation	warming effect. Evaporation is the process of a substance	Lemmal Supplies the supplies th	SOLIDS, LIQUIDS CHEMICAL COLLARS CHEMICAL
	in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure.	sciencenotes.org	AND GRADES TOMOGRAPHICAL TOMOG
Insulator	Plastic, wood, glass and rubber are good electrical insulators	Sticky Knowledge	Scientist
Conductor	Some materials let electricity pass through them easily.	The surthest bast sluceus masure from botto and	
	These materials are known as electrical conductors.	I know that heat always moves from hot to cold.	My name is Samuel Cabot
Convection	The heated molecules take up more space and rise to the	I know that some materials (insulators) are better at slowing down	and I invented an Insulating
currents	top, while the cooler molecules sink to the bottom.	the movement of heat than others (conductors).	blanket called the Cabot quilt.
Solubility	When a substance can dissolve forming a solution.	I know that objects or liquids will warm up or cool down until	
		they reach the temperature of their surroundings.  I know within an experiment, how to compare and group together, with an increasing confidence, everyday materials based on their properties including their hardness, solubility, transparency,	My name is Joseph Black and I discovered magnesium and carbon dioxide and how materials give off heat.
		conductivity (electrical and thermal) and their response to magnets.	Previous Learning
		I know how to carry a fair test to explore thermal insulation which	In EYFS:
		material keeps my lunch the coolest for the longest amount of	KSI: I know how materials can be changed, I
		time? http://stpetersrcprimary.org/2021/03/year-5-thermal-	know why materials might or might not be used
		conductors-thermal-insulators/.	for a specific job.
			LKS2: I know how to group materials based on
			their state of matter.
			I know and can make observe how materials can
			change states. I know the temperature at which
			materials start to change.