The Bemrose School Curriculum



Curriculum Overview: Year 9 KS3 and GCSE Trilogy Science

Autumn 1	Autumn 2	Spring 1 (GCSE Starts)	Spring 2	Summer 1	Summer 2
Topic covered →	Topic covered →	Topic covered →	Topic covered →	Topic covered →	Topic covered→
Reactions 2, Waves 2,	KS3 revision of all				
Electromagnets 2	content for the key	Biology → Cells	Chemistry → Atomic	Physics → Energy	Biology → Plant
	stage		Structure		organisation
				Biology → Human	
				Organisation	
Links to prior learning	Links to prior learning	Links to prior learning	Links to prior learning	Links to prior learning	Links to prior learning
Reactions 2:	All topics for the key	- Animal and plant cells.	- Elements, compounds	- Renewable and non-	- Plant cells
Content of the Reaction 2	stage are reviewed	- Specialised cells and	mixtures.	renewable energy	- photosynthesis
and bond forming and	before an end of Key	adaptations.	- Periodic table and	sources.	- What a plant needs to
energy changes in a	Stage assessment on:	- using microscopes.	trends in reactivity.	- Digestive and circulatory	make it healthy.
chemical reaction are not	 Biology 			systems.	
specified in the KS2 NC	 Chemistry 				
	Physics	Stretch and Challenge	Stretch and Challenge	Stretch and Challenge	Stretch and Challenge
Waves 2:	 Science Skills 	Enquiry	Enquiry	Enquiry	Enquiry
Content of the Waves 2					
about the properties of		Is it right to use STEM	Why do Science models	Why is it better for the	Why are plants to
longitudinal and		cells to treat cancer?	change over time?	environment to charger	important to the
transverse waves are not				your phone in Iceland	environment and in
specified in the KS2 NC				than anywhere else in the	preventing Global
				world?	warming?
Stretch and Challenge					
Enquiry					
Identify some examples					
of exothermic and					
endothermic examples					
you'd find in the					
laboratory and draw					
energy diagrams to show					
the energy conversions.					
Research how a radio					
works to pick up the					

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different frequencies released by the different radio stations.				
 Electromagnets 2: compare how things move on different surfaces notice that some forces need contact between two objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some 				
 materials and not others compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials 				
describe magnets as having two poles predict whether two magnets will attract or repel each other, depending on which poles are facing. Stretch and Challenge Enquiry Explain how electromagnets are used in: the school bell, car crushing machines, and the Magdelev trains				

Equipment Needed	Wider Reading	Family activities
Pen, pencil, ruler, calculator	Key stage 3 Bitesize: https://www.bbc.co.uk/bitesize/subjects/zng4d2p	Watch the news.
	GCSE bitesize: https://www.bbc.co.uk/bitesize/subjects/zrkw2hv	Beat the Parent – make flashcards and compete with
	Kay Science → https://www.kayscience.com/	your child. Who can get the most correct answers?
	SENECA → https://app.senecalearning.com/dashboard/courses/add?Price=Free	Support your child using educake for home learning.
	Science Journals for Kids → https://www.sciencejournalforkids.org/	