The Bemrose School Curriculum



Curriculum Overview: Year 9 Maths https://whiterosemaths.com/resources?year=year-9

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Straight line graphs	Three dimensional shapes	Reasoning with number	Reasoning with geometry	Enlargement and	Probability
Forming and solving	Construction and	Using percentages	Rotation and translation	similarity	Algebraic representation
equations	congruency	Maths and Money	Pythagoras theorem	Ratio and proportion	
Testing conjectures					
Links to prior learning	Links to prior learning	Links to prior learning	Links to prior learning	Links to prior learning	Links to prior learning
Plotting simple straight-	Properties of 2D and 3D	Standard form	Angles	Simple transformations	Probabilities of single and
line graphs	shapes	HCF/LCM	Properties of shapes	Ratio and scale	combined events
Forming and solving	Area of 2D shapes	Fractions, decimals and	Symmetry and reflection	Speed, distance and time	Straight line graphs
linear equations	Constructing polygons	percentages	Squares and square roots	graphs	
Stretch and Challenge	Stretch and Challenge	Stretch and Challenge	Stretch and Challenge	Stretch and Challenge	Stretch and Challenge
Enquiry	Enquiry	Enquiry	Enquiry	Enquiry	Enquiry
When two lines are	How do you identify a	Why increasing a number	What does it mean for a	Which scale factor	Why do we multiply
perpendicular, why must	pyramid?	by a % and then	point or a line to be	produces a larger shape	probabilities along the
one gradient be positive		decreasing the answer by	invariant?	$-2 \text{ or } \frac{1}{2}$?	branches of a tree
and one be negative?	How many cones would	the same % doesn't get		2	diagram but add the
	fit into a cylinder of the	you back to the original	What is the greatest	Is the graph of an inverse	probabilities of the
How many terms will	same dimensions?	number?	distance between the	proportion relationship	outcomes?
there be in the initial		What is the difference	vertices of a cube?	linear or non-linear?	How can you check the
expansion of three		between simple and		Why?	solution to a pair of
binomials?		compound interest?		vviiy:	simultaneous equations?
Equipment Needed		Wider Reading		Family activities	
Scientific calculator		The Code Book by Simon Singh		Maths games	
Pair of compasses				https://nrich.maths.org/9465	
Ruler		The Code Book is a history of man's urge to uncover the secrets of codes, from Egyptian		Try online GCSE papers at	
Pencil				https://www.onmaths.com/	
Protractor		puzzles to modern day computer encryptions.		https://www.mathsgenie.co.uk/AQApapers.html	

Homework

Smart Phone, Tablet, Laptop, Desktop, Wi-Fi **Sparx Maths**



puzzles to modern day computer encryptions. As in Fermat's Last Theorem, Simon Singh brings life to an astonishing story of puzzles, codes, languages and riddles that reveals man's continual pursuit to disguise and

uncover, and to work out the secret languages of others.

A guide to parents

https://www.aqa.org.uk/maths-digest/maths-

blog/supporting-students-a-parents-perspective

Free Maths Resources

https://mathsbot.com/gcseMenu

https://corbettmaths.com/contents/

https://gridalgebra.com/free