Maths – Booster Sessions Grade 5 to 9 Index

Tuesday 28th March	New Higher Content	Session to include a selection from the list below. Resources for all will be available.
		• Expand the products of more than two binomials
		• Interpret the reverse process as the 'inverse function'; interpret the succession of two functions as a 'composite function' (using formal function notation)
		• Deduce turning points by completing the square
		• Calculate or estimate gradients of graphs and areas under graphs, and interpret results in real-life cases (not including calculus)
		• Simple geometric progressions including surds, and other sequences
		• Deduce expressions to calculate the nth term of quadratic sequences
		• Calculate and interpret conditional probabilities through Venn diagrams

Tuesday 4th April	Mat #1a and #1b	Qu	Grade	Description
		1	5/6	Compound interest
		2	5/6	Solve quadratic equation by factorising
		3	5/6	Indices
		4	6	Linear simultaneous equations
		5	6	Trigonometry – sine ratio
		6	7/8	Surds
		7	7/8	Stratified sample
		8	7/8	Sine rule – find a side
		9	8/9	Simultaneous equations – quadratic and linear

Tuesday 25th April	Mat #2a and #2b	Qu	Grade	Description
		1	6	Trigonometry – sine ratio
		2	7/8	Sine rule – find angle
		3	7/8	Quadratic formula
		4	6	Linear simultaneous equations
		5	7/8	Surds
		6	7/8	Proportional change
		7	7/8	Sketch $y = \sin x$
		8	7/8	Solve fractional linear equation
		9	7/8	Volume of a sphere

Tuesday 2nd May	Mat #3a and #3b	Qu	Grade	Description
		1	5/6	Pythagoras theorem – find hypotenuse
		2	6	Trigonometry – tangent ratio
		3	7/8	Cosine rule – find side
		4	6	Compound interest
		5	8/9	Simultaneous equations – quadratic and linear
		6	8/9	Simultaneous equations – quadratic and linear
		7	6	Complete the square
		8	6	Sketch $y = x^3$
		9	7/8	Sketch $y = \cos x$

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		Qu	Grade	Description
Tuesday 9th May	**Mat #4a and #4b**	1	5/6	Pythagoras theorem – find adjacent
		2	6	Trigonometry – tangent ratio
		3	7/8	Cosine rule – find angle
		4	7/8	Equation of a straight line through two points
		5	6	Volume of cylinder – find the height
		6	6	Difference of two squares
		7	6	Function table
		8	6	Sketch the curve y = 1/x
		9	7/8	Sketch the curve y = tan x

		Qu	Grade	Description
Tuesday 16th May	**Mat #5a and #5b**	1	6	Factorise quadratic expression
		2	6	Trigonometry – sine ratio
		3	6	Area of non right angled triangle
		4	6	Linear simultaneous equations
		5	8/9	Simultaneous equations – quadratic and linear
		6	7/8	Surds
		7	6	Proportional change
		8	7/8	Volume of cone – answer as a multiple of π
		9	7/8	Volume of sphere – answer as a multiple of π