

## Maths – Grade 3 to 5 Booster Sessions

<b>Tuesday 28th March</b>	<b>New Foundation Content</b>	<b>Session to include a selection from the list below. Resources for all will be available.</b>
		<p>Index laws: zero and negative powers (numeric and algebraic)</p> <ul style="list-style-type: none"> <li>• Standard form</li> <li>• Compound interest and reverse percentages</li> <li>• Direct and indirect proportion (numeric and algebraic)</li> <li>• Expand the product of two linear expressions</li> <li>• Factorise quadratic expressions in the form <math>x^2 + bx + c</math></li> <li>• Solve linear/linear simultaneous equations</li> <li>• Solve quadratic equations by factorisation</li> <li>• Plot cubic and reciprocal graphs, recognise quadratic and cubic graphs</li> <li>• Trigonometric ratios in 2D right-angled triangles</li> <li>• Fractional scale enlargements in transformations</li> <li>• Lengths of arcs and areas of sectors of circles</li> <li>• Mensuration problems</li> <li>• Vectors (except geometric problems/proofs)</li> <li>• Density</li> <li>• Tree diagrams</li> </ul>

<b>Tuesday 4<sup>th</sup> April</b>	<b>Mat #1a and #1b</b>	<b>Qu</b>	<b>Grade</b>	<b>Description</b>
		1	2	Proportional change
		2	2	Function maths – bill problem
		3	3	Adding fractions
		4	3	Subtracting fractions
		5	3	Multiplying fractions
		6	3	Dividing fractions
		7	4	Product of prime factors
		8	4	Volume of cylinder
		9	4	Expand and simplify brackets

<b>Tuesday 25th April</b>	<b>Mat #2a and #2b</b>	<b>Qu</b>	<b>Grade</b>	<b>Description</b>
		1	2	Median and range
		2	2	Function maths – bill problem
		3	3	Area of trapezium
		4	3	Area of circle
		5	3	Adding fractions
		6	3	Dividing fractions
		7	3	Circumference of a circle
		8	4	Product of prime factors
		9	4	Expand and simplify brackets

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Tuesday 2 <sup>nd</sup> May	Mat #3a and #3b	Qu	Grade	Description
		1	2	Mean and mode
		2	2	Function maths – bill problem
		3	3	nth term of a linear patter
		4	3	Area of circle
		5	3	Share in a ratio
		6	4	Product of prime factors
		7	4	Factorise and expression
		8	4	Constructions
		9	4	Solve a linear equation with brackets

Tuesday 9 <sup>th</sup> May	Mat #4a and #4b	Qu	Grade	Description
		1	2	One number as a fraction of the other
		2	2	One number as a percentage of the other
		3	2	Indices
		4	3	Internal/external angle of a polygon
		5	3	Speed
		6	3	Stem and leaf diagram
		7	3	nth term of a linear pattern
		8	4	Expand and simplify brackets
		9	4	Solve a linear equation with brackets

Tuesday 16 <sup>th</sup> May	Mat #5a and #5b	Qu	Grade	Description
		1	2	Mean, median, mode and range
		2	2	Questionnaire design
		3	2	Data collection sheet design
		4	2	Expectation
		5	3	Mean from frequency table
		6	3	Correlation
		7	3	Stem and leaf diagram
		8	4	Mean from grouped frequency table
		9	4	Product of prime factors