



Key Stage 4

Subject: Extra Maths

Head of Faculty: Mrs Speer

Numeracy Lead: Miss Arends

Extra Maths Lead: Miss Ashby

<u>Statement of Curriculum Intent:</u>		
For every pupil to have a deep understanding of numeracy preparing them for the challenges of the twenty-first century.		
Year 10 Extra Maths Lessons Overview Foundation		
Foundation Term 1 Overview	Foundation Term 2 Overview	Foundation Term 3 Overview
Half Term 1	Half Term 3	Half Term 5
<ul style="list-style-type: none"> • Number: types of number, decimal addition, directed numbers, multiplication (including decimals), BIDMAS. • Algebra: simplifying expressions. • Geometry: area and perimeter. • Statistics and Probability: averages. 	<ul style="list-style-type: none"> • Number: types of number, product of primes, arithmetic with money, BIDMAS. • Algebra: Solving equations, expanding and simplifying, nth term of a linear sequence, factorising. • Ratio and Proportion: dividing a ratio, percentage of an amount. 	<ul style="list-style-type: none"> • Number: four operations with fractions, estimation, long multiplication, long division, BIDMAS, arithmetic with money. • Algebra: finding the nth term of a linear sequence, solving equations, substitution, expanding and simplifying. • Ratio and Proportion: fraction of an amount.
Half Term 2	Half Term 4	Half Term 6
<ul style="list-style-type: none"> • Number: product of primes, multiplying decimals, arithmetic with money. • Algebra: expanding and simplifying, using the nth term of a linear sequence. • Geometry: ordering measures. • Ratio and Proportion: percentage of an amount, simplifying ratios. 	<ul style="list-style-type: none"> • Number: four operations with fractions, rounding, highest common factor, lowest common multiple, types of number, long multiplication. • Algebra: factorising. • Geometry: area and circumference of circles. • Ratio and Proportion: percentage of an amount, equivalent fractions. 	<ul style="list-style-type: none"> • Number: product of primes, arithmetic with decimals, estimation. • Algebra: solving inequalities, factorising, rearranging formulae, substitution. • Ratio and Proportion: FDP conversion, increase and decrease by a percentage, fraction of an amount.

Every lesson pupils apply their learning to a "Problem of the week".

Pupils' progress is recorded through an examination and RMP task at the end of each half term.



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Year 10 Extra Maths Lessons Overview Crossover		
Crossover Term 1 Overview	Crossover Term 2 Overview	Crossover Term 3 Overview
Half Term 1	Half Term 3	Half Term 5
<ul style="list-style-type: none"> • Number: writing large numbers in standard form, long multiplication, rounding to significant figures. • Algebra: expanding brackets, gradient of a line, solving equations. • Geometry: rounding measures, trigonometry. • Ratio and Proportion: percentage change, direct proportion. 	<ul style="list-style-type: none"> • Number: upper bounds, rounding to significant figures, multiplying and dividing fractions. • Algebra: expanding double brackets, factorising quadratics, simultaneous equations, checking if a point is on a line. • Geometry: trigonometry. • Ratio and Proportion: inverse proportion. 	<ul style="list-style-type: none"> • Number: multiplying and dividing standard form, rounding and truncating numbers, multiplying and dividing decimals, error intervals, calculating mixed numbers. • Algebra: factorising quadratics, gradient of a line, simultaneous equations, finding nth term. • Ratio and Proportion: compound measures: density.
Half Term 2	Half Term 4	Half Term 6
<ul style="list-style-type: none"> • Number: writing small numbers in standard form, long division, lower bounds, adding and subtracting fractions. • Algebra: expanding double brackets, factorising, missing terms of sequences, y-intercept of a line. • Ratio and Proportion: increase by a percentage 	<ul style="list-style-type: none"> • Number: adding and subtracting standard form, calculating with fractions, error intervals. • Algebra: expand double brackets, factorising quadratics, factorising and solving, sketching graphs. • Ratio and Proportion: percentage change, reverse percentages, compound measures: speed. 	<ul style="list-style-type: none"> • Number: mixed arithmetic with standard form, multiplying and dividing decimals, rounding and truncating, arithmetic with mixed numbers. • Algebra: factorising: difference of two squares, equation of a line, factorising and solving quadratics, simultaneous equations. • Geometry: trigonometry. • Ratio and Proportion: mixed proportion.

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Year 10 Extra Maths Lessons Overview Higher		
Higher Term 1 Overview	Higher Term 2 Overview	Higher Term 3 Overview
Half Term 1	Half Term 3	Half Term 5
<ul style="list-style-type: none"> • Number: product of primes, BIDMAS, multiplying decimals, long division, arithmetic with mixed numbers. • Algebra: finding the nth term, expanding and simplifying, solving equations, substitution. • Ratio and Proportion: increase and decrease by a percentage. 	<ul style="list-style-type: none"> • Number: arithmetic with mixed numbers, rounding, multiplying decimals, dividing decimals • Algebra: solving inequalities, expanding and simplifying, surds, index laws, rearranging formulae. • Geometry: metric units, area. 	<ul style="list-style-type: none"> • Number: arithmetic with mixed numbers, arithmetic with decimals, fractional and negative indices. • Algebra: solving quadratics, algebraic fractions, solving inequalities, expanding double brackets, simultaneous equations, rearranging formulae.
Half Term 2	Half Term 4	Half Term 6
<ul style="list-style-type: none"> • Number: dividing decimals, arithmetic with mixed numbers • Algebra: expanding and simplifying, using the nth term of a linear sequence, solving equations, substitution. • Ratio and Proportion: divide in a ratio • Statistics and Probability: reverse averages. 	<ul style="list-style-type: none"> • Number: product of primes, estimation, standard form. • Algebra: solving quadratics, completing the square, algebraic fractions, expanding and simplifying surds, gradient of a line, index laws. • Ratio and Proportion: percentage change. 	<ul style="list-style-type: none"> • Number: arithmetic with standard form, lowest common multiple, highest common factor. • Algebra: quadratic formula, equation of a line, squaring brackets, simultaneous equations, expanding with surds, solving quadratics by factorising. • Geometry: metric units of area and volume.

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