

Year overview

Term 1a: Friday 3rd September – Friday 22nd October (approx. 7 weeks = 32 hours)	Term 1b: Friday 1st November – Tuesday 21st December (approx. 7 weeks = 31 hours)
1a: Calculations, checking and rounding 1b: Indices, roots, reciprocals and hierarchy of operations 1c: Factors, multiples, primes, standard form and surds 4a: Fractions and percentages 4b: Ratio and proportion Mini Assessment	2a: Algebra the basics 9a: Simultaneous equations 9b: Inequalities 2b Sequences 6a: Graph basics and real life graphs 11: Compound measures 6b: Linear graphs and coordinate geometry
Term 2a: Friday 7th January – Friday 11th February (approx. 5 weeks = 23 hours)	Term 2b: Monday 21st February – Friday 1st April (approx. 6 weeks = 27 hours)
7a: Perimeter, area and volume 7b: 3D forms and volumes, cylinders 5a: Polygons, angles and parallel lines 14a: Collecting data 3a: Averages and range	3b: Representing and interpreting data and scatter graphs 5b: Pythagoras' Theorem and trigonometry 13a: Graphs of trigonometric functions 8a: Transformations 10: Probability
Term 3a: Tuesday 19th April – Friday 27th May (approx. 6 weeks = 27 hours)	Term 3b: Monday 6th June – Friday 22nd July (approx. 7 weeks = 31 hours)
9a: Solving quadratic and simultaneous equations 6c: Quadratics, cubic and other graphs 15: Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics 13b: Further trigonometry 14b: Cumulative frequency, box plots and histograms	Revision End of year exams Exam review

Use the KS4 curriculum map breakdown to see learning objectives for students.

Topic & Description	Lesson (approx)	Textbook Ref.	Hegarty	Maths Watch	Resources & Applications	Activities & Extension	Homework
Number Properties and Calculations (1a, 1b, 1c)							
Calculations, checking and rounding <ul style="list-style-type: none"> Integers and decimals Estimating 	3 – 5						
Indices, roots, reciprocals and hierarchy of operations <ul style="list-style-type: none"> Indices BIDMAS and calculator 	3 – 5						
Factors, multiples, primes, standard form and surds <ul style="list-style-type: none"> HCF and LCM Standard form Surds 	6 – 8						
Fractions and percentages (4a, 11)							
Fractions and percentages <ul style="list-style-type: none"> Equivalent fractions Mixed numbers Operations with fractions FDP Recurring decimals Percentage of a value Increase/decrease by a percentage Reverse percentages 	11 – 13						
Ratio and proportion (4b,11)							
Ratio and proportion <ul style="list-style-type: none"> Ratio basics Share into a ratio Using ratios Proportion 	5 – 7						
Algebra 1 (2a 9b)							
Algebra basics <ul style="list-style-type: none"> Algebraic manipulation Substitution Linear equations Rearranging formulae Proof and iterations 	9 – 11						

Inequalities <ul style="list-style-type: none"> • Inequalities – basics • Solve inequalities 	5 – 7						
Equations and inequalities <ul style="list-style-type: none"> • Solve linear equations • Set up and solve linear equations • Inequalities on number line • Solve inequalities • Integers that satisfy inequalities 	7 – 9						
Rearranging formulae <ul style="list-style-type: none"> • Rearrange simple formulae • Rearrange formulae with roots and squares 	2 – 3						
Simultaneous equations							