

We are determined to inspire and build resilience in all to use mathematical problem solving and numerical reasoning alongside fluency and knowledge. This will enable all to navigate through our diverse world with confidence and accuracy.

	HT 1	HT 2	HT 3	HT 4	HT 5	HT 6
YEAR 7	<p>NUMBER</p> <ul style="list-style-type: none"> Place Value 4 operations up to negative/decimal 	<p>NUMBER</p> <ul style="list-style-type: none"> Rounding/estimating Powers/roots Factors/multiples/primes Fractions Percentage 	<p>NUMBER</p> <ul style="list-style-type: none"> Percentage <p>RATION AND PROPORTION</p> <ul style="list-style-type: none"> Writing ratio Simplifying Sharing Proportion 	<p>ALGEBRA</p> <ul style="list-style-type: none"> Algebraic notation and expressions, equations, substitution and solving equations Sequences Coordinates and graphs 	<p>ALGEBRA</p> <ul style="list-style-type: none"> Coordinates and graphs <p>GEOMETRY</p> <ul style="list-style-type: none"> 2D shapes properties and area 3D shapes properties/plans/elevations Angles and bearings Transformations 	<p>GEOMETRY</p> <ul style="list-style-type: none"> Measure Distance/time/speed <p>DATA</p> <ul style="list-style-type: none"> Tally/frequency charts Averages from lists/tables Real life problems
YEAR 8	<p>NUMBER</p> <ul style="list-style-type: none"> Factors Multiples Primes Four operations and order of operations Ordering FDP equivalence Fractions Percentages 	<p>PROBABILITY</p> <ul style="list-style-type: none"> Probability of single events/sample space <p>RATIO</p> <ul style="list-style-type: none"> Ratio/writing – simplify Bar modelling – sharing <p>PROPORTION</p> <ul style="list-style-type: none"> Proportion Recipe/best buy <p>ALGEBRA</p> <ul style="list-style-type: none"> Recap simplifying/substituting/expanding/factorising 	<p>ALGEBRA</p> <ul style="list-style-type: none"> Solving equations and simultaneous intro (pictures/context) Simultaneous Sequences/special sequences/linear/geometric/nth term 	<p>ALGEBRA</p> <ul style="list-style-type: none"> Coordinates and straight-line graphs <p>SHAPE</p> <ul style="list-style-type: none"> Angles: drawing, measuring, triangles, parallel lines, bearings 2D shapes and 3D shapes 	<p>SHAPE</p> <ul style="list-style-type: none"> Circles <p>NUMBER</p> <ul style="list-style-type: none"> Powers + roots + surds intro Standard form <p>SHAPE</p> <ul style="list-style-type: none"> Pythagoras 	<p>STATISTICS</p> <ul style="list-style-type: none"> Averages Tally Pictograms Bar charts Pie charts Scatter graphs Correlation Line of best fit Real life problems
YEAR 9	<p>NUMBER</p> <ul style="list-style-type: none"> Factors Multiples Primes BIDMAS recap Rounding and estimating Fraction/decimal/percentage/calculations <p>PROBABILITY</p> <ul style="list-style-type: none"> Single event recap and venn diagrams 	<p>NUMBER</p> <ul style="list-style-type: none"> Indices and standard form calculations <p>RATION AND PROPORTION</p> <ul style="list-style-type: none"> Best value Scale Sharing ratio/missing values/proportion (direct and invest) <p>ALGEBRA</p> <ul style="list-style-type: none"> Recap of notation, like terms, substitution 	<p>ALGEBRA</p> <ul style="list-style-type: none"> Expand brackets Factorise expressions Solving equations Rearrange formulae 	<p>ALGEBRA</p> <ul style="list-style-type: none"> Applying formulae (SDT/DMV) Plotting graphs Finding equations Solve using graphs Contextual graphs Sketching graphs Sequences 	<p>GEOMETRY</p> <ul style="list-style-type: none"> Angles recap Constructions Area, volume and surface area 	<p>GEOMETRY</p> <ul style="list-style-type: none"> Area, volume and surface area Transformations <p>STATISTICS</p> <ul style="list-style-type: none"> Averages from frequency tables Statistical analysis Real life problems

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YEAR 10	FRACTIONS DECIMALS PERCENTAGES INDICES	INDICES PROBABILITY ALGEBRAIC MANIPULATION SEQUENCES GRAPHS	GRAPHS EQUATIONS AND QUADRATICS	INEQUALITIES RATIO AND PROPORTION	ANGLES AREA AND VOLUME PYTHAGORAS AND TRIGONOMETRY	PYTHAGORAS AND TRIGONOMETRY REVISION AND EXAM TECHNIQUE AHEAD OF ASSESSMENT STATISTICS YEAR 11 – AN INTRODUCTION
YEAR 11 FOUNDATION	NUMBER Factors/multiples/primes/percentage review Powers, laws of indices (numerical) and standard form PROBABILITY Sample space/diagrams ALGEBRA Review of basic algebra	ALGEBRA Expanding/factorising linear and quadratic Expand/factorise and solve linear and quadratics Rearrange basic formula Sequence Graphs	ALGEBRA Drawing linear/quadratic/cubic/recipe graphs and sketch and shape STATISTICS Averages Pie charts/scatter graphs RATIO AND PROPORTION Sharing ratio/missing values/proportion/best buys	GEOMETRY Area/surface area and volume and context Angles Parallel bearings/polygon	GEOMETRY Pythagoras and trigonometry RATIO SDT/DMV GEOMETRY Transformation/construction KNOWLEDGE AND SKILLS RECALL AND RETRIEVAL BASED ON: IN CLASS ASSESSMENT, FEEDBACK AND QUESTION LEVEL ANALYSIS SPECIFIC TO CLASS REQUIREMENTS	
YEAR 11 CROSS OVER	NUMBER Factors/multiples/primes Fractions Decimal review PROBABILITY Probability up to venn/tree diagram NUMBER Percentages, compound interest/depreciation Powers, laws of indices ALGEBRA Algebra review	ALGEBRA Solve linear equations, linear simultaneous equations included worded and graphical Expand/factorise and solve quadratics inc. completing the square Sequences Algebraic indices – negative/fractional	ALGEBRA Linear and quadratic graphs and solving (find turning points, Simultaneous graphs RATIO AND PROPORTION Sharing ratio/missing values/ direct and inverse proportion/best buys ALGEBRA Rearranging formula (subject twice)	GEOMETRY Area/surface area and volume cone/sphere Angles/parallel/polygon/bearings Pythagoras and trigonometry up to 3D	GEOMETRY Exact values of trig STATISTICS Averages Statistical diagrams GEOMETRY Constructions and transformations KNOWLEDGE AND SKILLS RECALL AND RETRIEVAL BASED ON: IN CLASS ASSESSMENT, FEEDBACK AND QUESTION LEVEL ANALYSIS SPECIFIC TO CLASS REQUIREMENTS	
YEAR 11 HIGHER	ALGEBRA Review of Y10 topics Equation of circle Linear simultaneous RATIO AND PROPORTION Review Direct and inverse NUMBER Surds: simplify/expand/rationalise/conjugate	ALGEBRA Equation of circle Linear simultaneous Quadratic simultaneous Inequalities GEOMETRY Sectors Further trig: sine/cosine/area	GEOMETRY Further trig: sine/cosine/area ALGEBRA Trig graphs and their transformation GEOMETRY Transformations including graphs Velocity graphs SDT	GEOMETRY Exact trig Vectors, column, algebra, ratio, parallel NUMBER Bounds, estimate, limit ALGEBRA Iteration, trial and improvement	ALGEBRA Composite/inverse fractions Algebraic proof GEOMETRY Constructions and loci KNOWLEDGE AND SKILLS RECALL AND RETRIEVAL BASED ON: IN CLASS ASSESSMENT, FEEDBACK AND QUESTION LEVEL ANALYSIS SPECIFIC TO CLASS REQUIREMENTS	

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YEAR 12	UNIT 1: ALGEBRA AND FUNCTIONS UNIT 2: COORDINATE GEOMETRY IN THE (X,Y0 PLANE UNIT 3: FURTHER ALGEBRA	UNIT 3: FURTHER ALGEBRA INCLUDING PROOF BY CONTRADICTION UNIT 2: COORDINATE GEOMETRY IN THE (X,Y0 PLANE UNIT 5: VECTORS UNIT 4: TRIGONOMETRY INTRODUCTION TO QUANTITIES AND UNITS KINEMATICS 1 (CONSTANT ACCELERATION)	UNIT 4: TRIGONOMETRY KINEMATICS 1 (CONSTANT ACCELERATION) FORCES AND NEWTON'S LAW UNIT 6: DIFFERENTIATION	UNIT 6: DIFFERENTIATION FORCES AND NEWTON'S LAW UNIT 7: INTEGRATION KINEMATICS 2 (VARIABLE ACCELERATION)	UNIT 7: INTEGRATION KINEMATICS 3 (PROJECTILES) UNIT 8: EXPONENTIALS AND LOGARITHMS UNIT 4: MOMENTS FORCES 2: APPLICATION	UNIT 4: SERIES AND SEQUENCES FORCES 2 – APPLICATION ANALYSIS AND FEEDBACK FOLLOWING CENTRE ASSESSMENT
YEAR 13	INTRODUCTION AND YEAR 12 CATCH UP UNIT 2: ALGEBRAIC AND PARTIAL FRACTIONS UNIT 5: BINOMIAL THEOREM UNIT 3: FUNCTIONS AND MODELLING UNIT 1: STATISTICAL SAMPLING	UNIT 3: FUNCTIONS AND MODELLING UNIT 6: TRIGONOMETRY UNIT 2: DATA PRESENTATION AND INTERPRETATION UNIT 1: REGRESSION UNIT 2: PROBABILITY UNIT 7: PARAMETRIC EQUATIONS UNIT 5: STATISTICAL	UNIT 8: DIFFERENTIATION UNIT 4: STATISTICAL DISTRIBUTION – NORMAL DISTRIBUTION UNIT 8: DIFFERENTIATION UNIT 5: STATISTICAL	UNIT 8: DIFFERENTIATION UNIT 5: STATISTICAL HYPOTHESIS TESTING UNIT 10: INTEGRATION PART 1 UNIT 11: INTEGRATION PART 2 UNIT 9: NUMERICAL METHODS	UNIT 11: INTEGRATION PART 2 KNOWLEDGE AND SKILLS RECALL AND RETRIEVAL BASED ON: IN CLASS ASSESSMENT, FEEDBACK AND QUESTION LEVEL ANALYSIS SPECIFIC TO CLASS REQUIREMENTS	