

5 YEAR MAP OF LEARNING: Mathematics

SUBJECT LEADER: Mr Carter FACULTY: Computare

Year 7	Year 8	Year 9	Year 10	Year 11
Units - Algebra: Sequences - Algebra: Algebraic notation and substitution - Algebra: Expressions and equations - Number: Place value, ordering and rounding - Number: Four operations Statistics: Averages and range - Number: Rounding and estimation - Statistics: Graphing data - Number: Fractions, decimals and percentages - Number: Directed number - Number: Fractions and percentages of amounts Geometry and measures: Perimeter and area - Ratio, proportion and rates of change	Units - Ratio, proportion and rates of change: Ratio - Ratio, proportion and rates of change: Proportion and scale - Algebra: Algebraic manipulation - Algebra: Coordinates and graphs - Number: Multiply and divide fractions - Geometry and measures: Symmetry and reflection - Geometry and measures: Area, volume and density - Algebra: Equations - Number: Percentages - Number: Percentages (continued) - Algebra: Indices - Number: Standard form - Statistics: Interpret and represent data	Units - Number: Properties of number - Number: Percentages - Geometry and measures: Area and volume - Algebra: Equations, inequalities and formulae - Number: Fractions - Ratio, proportion and rates of change: Rates - Number: Standard Form - Number: Maths and money - Algebra: Straight line graphs - Ratio, proportion and rates of change: Ratio and proportion - Geometry and measures: Constructions and congruence - Geometry and measures: Similarity	Units (Foundation) - Algebra: Algebraic manipulation - Algebra: Equations, inequalities and formulae - Algebra: Quadratic expressions and equations - Number: Percentages - Ratio, proportion and rates of change: Ratio and scale - Number: Work with fractions - Number: Non-calculator methods - Algebra: Straight line graphs - Probability: Probability - Number: Rounding and estimation - Geometry and measures: Perimeter, area and volume - Statistics: Interpret and represent data - Algebra: Non-linear graphs	Units (Foundation) - Investigating properties of shapes - Calculating - Solving equations and inequalities I - Mathematical movement I - Algebraic proficiency: tinkering - Proportional reasoning - Pattern sniffing - Calculating space - Exploring fractions, decimals and percentages Units (Higher) - Investigating properties of shapes - Calculating - Solving equations and inequalities I - Mathematical movement I - Algebraic proficiency: tinkering

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Speed: distance and time - Number: Properties of number - Number: Add and subtract fractions - Geometry and measures: Angles and polygons Assessment - Each unit will have a short assessment	- Geometry and measures: Angles in parallel lines and polygons - Statistics: Tables and probability - Geometry and measures: Circles - Statistics: Graphs and charts - Algebra: Sequences - Consolidation Assessment - Each unit will have a short assessment	- Algebra: Algebraic manipulation - Geometry and measures: Pythagoras' theorem - Algebra: Non-linear graphs Probability: Probability - Geometry and measures: Transformations - Algebra: Simultaneous equations (optional block) - Geometry and measures: Trigonometry (optional block) Assessment - Each unit will have a short assessment	- Geometry and measures: Angles - Statistics: Graphs and diagrams - Geometry and measures: Vectors - Number: Factors and powers Geometry and measures: Pythagoras' theorem and trigonometry - Algebra: Simultaneous equations Units (Higher) - Algebra: Algebraic manipulation - Algebra: Equations, inequalities and formulae Algebra: Quadratic expressions and equations - Number: Percentages - Ratio, proportion and rates of change: Ratio and scale Number: Work with fractions - Number: Non-calculator methods	- Proportional reasoning - Pattern sniffing - Solving equations and inequalities II - Algebraic proficiency: visualising I - Analysing statistics - Algebraic proficiency: visualising II - Mathematical movement II Assessment - Pupils will complete practice GCSE papers on a regular basis to determine overall progress

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			- Algebra: Straight line graphs Probability: Probability Number: Rounding and estimation - Geometry and measures: Perimeter, area and volume Statistics: Interpret and represent data - Algebra: Non-linear graphs - Geometry and measures: Angles - Statistics :Graphs and diagrams - Geometry and measures: Vectors - Number: Factors, powers and surds - Geometry and measures: Pythagoras' theorem and trigonometry - Algebra: Simultaneous equations Assessment - Pupils will complete practice GCSE papers on a regular basis to	

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			determine overall progress	