

## SUBJECT CURRICULUM OUTLINE

<b>Term</b>	<b>Topic/Unit of work</b>	<b>Knowledge</b>	<b>Skills</b>	<b>Assessment</b>
Autumn Term 1	Angles	Angle problems involving triangles and quadrilaterals Parallel lines Exterior/interior angles Pythagoras' Theorem Trigonometry Exact trig values	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Topic test Book marking
Autumn Term 2	Perimeter, Area, Volume Probability	Perimeter Area Volume Circles (circumference, area, $\pi$ ) Arc lengths and sector area Surface area Spheres and cones	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Topic test Book marking
Spring Term 1	Probability Statistics and sampling	Probabilities as FDP Experimental and Theoretical probability Sample space diagrams Conditional probability Combined events Sample and population Cumulative frequency and box plots Quartiles and range Histograms	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Topic test Book marking
Spring Term 2	Multiplicative reasoning Linear Graphs	Unitary method Speed Density Pressure Repeated % change Direct/indirect proportion Coordinates Distance-time graphs Mid-points of a line	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Topic Test Book marking

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		Equation of a line		
Summer Term 1	Linear Graphs Algebra Quadratics	Sketching a quadratic function Find approximate solutions Solve simultaneous equations graphically Solve simultaneous inequalities	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Topic Test Book marking
Summer Term 2	Quadratics Changing the subject	Rationalise the denominator Simplify algebraic fractions Change the subject of the formula Use function notation	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	End of year assessment  Book marking