









What I will know and understand by the end of Year 9.

	Themes	This year in Mathematics we will be learning:	This links to:	Key Vocabulary & Notation		
1		The Language of the Universe <ul style="list-style-type: none"> Block 1 – Straight line graphs Block 2 – Forming & solving equations Block 3 – Testing conjectures 	<ul style="list-style-type: none"> ➤ Link equations of graphs to solving equations. ➤ Revisits equations, use of brackets, geometric properties and rules. 	<ul style="list-style-type: none"> Position Term Linear Non-Linear Graphical 	<ul style="list-style-type: none"> Function Input Output Inverse Expression 	<ul style="list-style-type: none"> Equal = Equivalent \equiv Like Terms Form Solve
2		The Construction of the World <ul style="list-style-type: none"> Block 4 – Three dimensional shapes Block 5 – Constructions & congruency 	<ul style="list-style-type: none"> ➤ Revisits estimation ➤ Revisits rounding to nearest integer, decimal places, significant figures. ➤ Revisits unit conversions, including area and volume units. 	<ul style="list-style-type: none"> Prism Pyramid Tetrahedron Isometric Elevation 	<ul style="list-style-type: none"> Construct Bisect Congruent Locus Equidistant 	
3		A Numerate Citizen <ul style="list-style-type: none"> Block 6 – Numbers Block 7 – Using percentages Block 8 – Maths & money 	<ul style="list-style-type: none"> ➤ Revisits add and subtract fractions. ➤ Revisits working out fractions of amounts. ➤ Revisits FDP equivalence. ➤ Revisits ratio. 	<ul style="list-style-type: none"> Real Rational Surd Integer Irrational 	<ul style="list-style-type: none"> Original Reverse Depreciate Index/Power Exponent 	<ul style="list-style-type: none"> Debit Credit Interest Annual Principle
4		The Construction of the World <ul style="list-style-type: none"> Block 9 – Deduction Block 10 – Rotation & translation Block 11 – Pythagoras' theorem 	<ul style="list-style-type: none"> ➤ Revisits fractions and directed number in the context of rotation. ➤ Compare rotational and line symmetry. ➤ Links to constructions and geometric reasoning. 	<ul style="list-style-type: none"> Alternate Corresponding Transversal Conjecture Prove 	<ul style="list-style-type: none"> Order Irregular Invariant Vector Translate 	<ul style="list-style-type: none"> Hypotenuse Opposite Adjacent Right-angled triangle
5		The Construction of the World <ul style="list-style-type: none"> Block 12 – Enlargement & similarity Block 13 – Solving ratio & proportion problems Block 14 – Rates 	<ul style="list-style-type: none"> ➤ Links to ratio notation. ➤ Revisits circumference. ➤ Revisits $y = mx$ ➤ Revisits unit pricing. 	<ul style="list-style-type: none"> Similar Corresponding Scale factor Inverted Enlargement 	<ul style="list-style-type: none"> Variable Proportional Constant Product Inverse 	<ul style="list-style-type: none"> Compound measures Substitute Rearrange Rate
6		An Informed Citizen <ul style="list-style-type: none"> Block 15 – Probability Block 16 – Algebraic representation Revision – Closing KS3 gaps in knowledge 	<ul style="list-style-type: none"> ➤ Reset frequency trees, tables and Venn diagrams. ➤ Links with inequalities. 	<ul style="list-style-type: none"> Relative Frequency Independent Intersection Union Bias 	<ul style="list-style-type: none"> Quadratic Parabola Turning point Vertex Reciprocal 	

Target Grade:		AP1:		AP2:		AP3:	
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