

Subject Long Term Plan Year 10

W/C	6 th September	10 th September	17 th September	24 th September	1 st October	8 th October	15 th October	H A J L	31 st October	5 th November	12 th November				
	Angles Scale diagrams and bearings	Basic Number, Factors and multiples	Basic algebra		Basic fractions and Decimals	Co-ordinates and linear graphs				Rounding	Sequences	Collecting and Representing Data			
	Angles at a point, on a line, on parallel lines, vertically opposite angles Scale factors, 3 figure bearings	Negative numbers, approximation, LCM, HCF, pr Factor square cube prime numbers Prime factor decomposition Venn Diagrams	Notation, simplifying expressions Expand & Factorise Linear & Quadratic Expressions Draw Quadratic Graphs		Four operations, Ordering, , conversion to fractions & % Add & subtract Multiply & divide fractions Use improper fractions	Co-ordinates in 4 quadrants, $y=mx+c$ Mid Point of a line Find line length (Pythagoras) Gradient & intercept from line Mid points mathematically				Decimal places, significant figures Recurring decimals	n th term for linear sequences, special sequences Position to term rule Term to term rule Recognise simple quadratic sequences	Questionnaire Bar charts, pie charts, pictograms, vertical line charts Interpret & Construct pie charts			
W/C	19 th November	26 th November	3 th December	10 th December	CHRISTMAS			7 th January	14 th January	21 st January	28 th January	4 th February	11 th February	HALF TERM	
	Collecting and Representing Data	Airbrick	Assessment	Investigations	Basic Percentages			Perimeter and area			Circles	Real life graphs			
	Questionnaire Bar charts, pie charts, pictograms, vertical line charts Interpret & Construct pie charts	Opportunity for revision lessons	Revision, diagnostic test, target setting	Investigations & Problem Solving	One quantity as a % of another, FDP conversions % Increase, Decrease Simple & Compound Interest Reverse percentage problems!			Area and perimeter of 2D shapes & composite shapes, properties of 3D shapes. Trigonometry Pythagoras' Theorem Surface area of 3D shapes,			Definitions, circumference area, arc length, sector area Calculate circumference & area of whole and sector circles	Calculating and interpreting, speed/distance/time SDT real life situations			

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W/C	25th February	4 th March	11 th March	18 th March	25 th March	1 st April	EASTER	24 th April	29 th April	6 th May	13 th May
	Ratio and proportion	Properties of polygons	Equations	Indices	Standard Form	Transformations		Transformations	Probability	Congruence and similarity	2D/3D shapes
	Division in a ratio, Proportion in cooking one quantity as a fraction of another, in context Constant of Proportionality	Special quadrilaterals, angle sum of polygons Interior & exterior angles in polygons	Substitute into formulae, solve linear equations Factorise & expand brackets Linear & Quadratic factorising	Index notation, index laws, surds Rational & irrational numbers	Converting to and from SF Calculations with and without a calculator (add, subtract, multiply & divide)	Translation Rotation Rotational symmetry Vector coordinates, Vectors		Enlargement Reflection Negative & fractional scale factors Translation Simple vector notation	Probability scale, single and combined events Probability trees Mutually inclusive & exclusive outcomes	Applying concepts to shapes, congruence criteria for triangles Congruence & Similarity in 2D shapes	Plans and elevations of 3D shapes Compound shapes Nets of Cylinders & Cones
W/C	20 th May	HALF TERM	3 rd June	10 th June	17 th June	24 th June	1 st July	8 th July			
	Year 10 Mock Exams		Year 10 Mock Exams	Calculating with percentages	Measures	Statistical measures	Year 10 Work Experience	Constructions and loci			
				% increase/decrease, find original value, simple interest Compound interest	Conversion between metric and imperial, compound measures History of maths	Mean, median, mode, range, comparing data sets MMMR of grouped data		Ruler and compass constructions, application to loci problems Islamic Art Constructions			

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				Percentage multipliers Solving percentage problems!	Imperial measures & coinage	Estimated Mean Modal group		In Circles & Ex circle constructions	
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