



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	HALF TERM	31 st October	5 th November	12 th November
	Angles Scale diagrams and bearings	Basic Number, Factors and multiples	Basic Number, Factors and multiples	Basic Algebra		Basic fractions & Decimals	Basic fractions & Decimals			Coordinates and linear graphs	Rounding
	Angles at a point, on a line, on parallel lines, vertically opposite angles Scale factors, 3 figure bearings Polygons	Negative numbers, approximation, LCM, HCF, primes, product of prime factors Prime factor decomposition Venn Diagrams Error Bounds		Notation, simplifying expressions Expand & Factorise Linear & Quadratic Expressions Solving the square Solve Quadratics Graphically Solve Equations double brackets Use quadratic formula		Four operations, Ordering, , conversion to fractions & % Add & subtract Multiply & divide fractions Improper Fractions Algebraic Fractions			Coordinates in 4 quadrants, $y=mx+c$ Mid Point of a line Find line length (Pythagoras) Gradient & intercept from line Mid points mathematically Perpendicular equation of a line.	Decimal places, significant figures Recurring decimals Error bounds.	nth term for linear sequences, special sequences Position to term rule Term to term rule Nth Term for Quadratic sequences.
W/C	19 th November	26 th November	3 rd December	10 th December	CHRISTMAS	7 th January	14 th January	21 st January	28 th January	4 th February	11 th February
	Collecting and Representing Data	Collecting and Representing Data	Assessment	Investigations		Basic Percentages	Perimeter and area		Circles	Real life graphs	Ratio and proportion
	Questionnaire Bar charts, pie charts, pictograms, vertical line charts Interpret & Construct pie charts Cumulative frequency. Box plots.		Revision, diagnostic test, target setting	Investigations & Problem Solving	One quantity as a % of another, FDP conversions % Increase, Decrease Simple & Compound Interest. Algebraic percentage increase of volume/area.	Area and perimeter of 2D shapes & composite shapes, properties of 3D shapes, Trigonometry Pythagoras' Theorem surface area of 3D shapes, cones, spheres cylinders 3D Pythagoras' Theorem Sine & Cosine rules		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	Division in a ratio, Proportion in cooking one quantity as a fraction of another, in context Constant of Proportionality	

Subject Long Term Plan Year 10

										Direct and inverse proportion!	
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
	Properties of polygons	Equations	Indices	Stand form	Assessment	Transformations		Transformations	Probability	Congruence and similarity	2D/3D shapes
	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)	Revision, diagnostic test, target setting	Translation Rotation Rotational symmetry Vector coordinates, Vectors Colinear proof first go.		Enlargement Reflection Negative & fractional scale factors	Probability scale, single and combined events Probability trees Mutually inclusive & exclusive outcomes	Applying concepts to shapes, congruence criteria for triangles Congruence & Similarity in 2 & 3D shapes Similar shapes area and volume!	Plans and elevations of 3D shapes Compound shapes Nets of Cylinders & Cones Use of sine cosine and area sine rule.
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 Percentage multipliers Algebraic percentage multipliers!	Conversion between metric and imperial, compound measures History of maths Imperial measures & coinage	Mean, median, mode, range, comparing data sets MMMR of grouped data	Ruler and compass constructions, application to loci problems Islamic Art Constructions In Circles & Ex circle constructions					

Subject Long Term Plan Year 10

