LONG TERM PLAN 25.26

Vision and Intent: Maths "It is better to solve one problem 5 different ways, than to solve 5 problems the same way" George Polya

WELCOME BACK WELCOME BACK WELCOME BACK WELCOME BACK

		HT1							HT2						
		HT1 - 0	HT1 -1	HT1 - 2	HT1 -3	HT1 - 4	HT1 -5	HT1 - 6	HT1 - 7	HT2 - 1	HT2 - 2	HT2 - 3	HT2 - 4	HT2 - 5	HT2 - 6	HT2 - 7
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Year 7	Year 7		Year 7 baseline assessment	Number - place value		Number - FDP equivalence		Number - four operations		Learning review week and assessment window	Geometry and Measures - perimeter and area		Number - fractions and %		Number - directed number	
	End of Unit Assessment					Assessment 1: FDP equivalence		Assessment 2: four operations					Assessment 3: fractions and %		Assessment 4: directed number	
			pupils will be able to understand place value pupils will be able to find equivalent fractions/decimals and percentages pupils will be able to apply the four operations							pupils will be able to work with perimeter and area pupils will be able to calculate with fractions and percentages pupils will be able to understand and use directed numbers						
Year 8	Year 8		Ratio and scale	Ratio and Proportion - Multiplicative change		Algebra - manipulation				Learning Review Week and Assessment window	Algebra - coordinates and graphs				Number - Multiplying and dividing fractions	
	End of Unit Assessment		Assessment 1: ratio and scale	Assessment 2: multiplicative change		Assessment 3: algebra manipulation									Assessment 4: multiplying and dividing fractions	
			pupils will be able to understand ratio and scale pupils will be able to understand multiplicative change pupils will be able to manipulate algebra							pupils will be able to explore coordinates and graphs pupils will be able to multiply and divide fractions						
Year 9	Year 9		Number - Fractions	Number - Properties of number		Probability (Year 9) Stats - data handling (Year 8) measures of spread (Year 8)		Number - using percentages		Learning Review Week and Assessment window	Number - Maths and Money			Geometry and Measures - Area and volume		Algebra - Equations, inequalities, and formulae
	End of Unit Assessment		Assessment 1: fractions	Assessment 2: properties of number		Assessment 3: probability and statistics		Assessment 4: using percentages						Assessment 5: area and volume		Assessment 6: equations, inequalities and formulae
			pupils will be able to calculate with fractions pupils will be able to explore properties of number pupils will be able to calculate probabilities pupils will be able to represent data and calculate statistics							pupils will be able to use percentages pupils will be able to solve problems involving maths and money pupils will be able to calculate area and volume						
Year 10	Year 10		Algebra - Algebraic manipulation	Algebra - Equations, inequalities, and formulae		Ratio and Proportion - Percentages (Incl. Maths and money from Y9)		Ratio and Proportion - Ratio and Scale			Number - Working with fractions				Number - Non calculator methods	
	End of Unit Assessment		Assessment 1: algebraic manipulation	Assessment 2: equations, inequalities and formulae		Assessment 3: percentages		Assessment 4: ratio and scale			Assessment 5: working with fractions				Assessment 6: non calculator methods	
			pupils will be able to manipulate algebra pupils will be able to solve equations, inequalities and use formulae pupils will be able to calculate with percentages							pupils will be able to explore ratio and scale pupils will be able to work with fractions pupils will be able to explore non-calculator methods						
Year 11	Year 11		Algebra - Expanding and factorising	Algebra - Equations, inequalities and formulae. (Year 10/Year 11 incl iteration)		EnMa Assessment 1	Algebra - simultaneous equations (Year 10)			Geometry and Measures - Pythagoras and Trigonometry (Year 10)		Year 11 Trial Exams Fortnight		Geometry and Measures - Loci and construction		Algebra - Gradients and lines (Year 11)
	End of Unit Assessment		Assessment 1: expand and factorise	Assessment 2: equations, inequalities and formulae						Assessment 3: Pythagoras and trigonometry				Assessment 4: loci and construction		Assessment 5: gradients and lines
			pupils will be able to expand and factorise expressions solve equations, inequalities and use formulae pupils will be able to solve simultaneous equations							pupils will be able to find missing lengths and angles in triangles using Pythagoras and trigonometry pupils will be able to identify a locus of points and construct shapes and triangles pupils will be able to explore gradients and lines						
Resit Maths	Resit		Groundwork Number	Groundwork Algebra		Groundwork Geometry		Groundwork Statistics		GCSE maths resit exams: P1 - 05/11/25 P2 - 07/11/25 P3 - 10/11/25			Percentages		Algebraic Manipulation	
			pupils will be able to understand and review number topics pupils will be able to understand and review algebra topics pupils will be able to understand and review geometry topics							pupils will be able to understand and review statistics topics pupils will be able to calculate with percentages pupils will be able to manipulate algebra						
	End of Unit Assessment															
Year 12	Year 12 Pure and Stats		Pure C1 - Algebraic expressions	Pure C4 - Graphs and transformations		Pure C5 - straight line graphs		Initial Assessment	- Circles		Pure C8 - Binomial		Pure C12 - Differentiation			
			Pupils will know: • how to simplify algebraic expressions and work with surds; • how to sketch cubic, quartic and reciprocal graphs; • how to transform graphs of unfamiliar functions; • how to interpret straight line graphs. • circle geometry;							Pupils will know: • how to differentiate polynomials; • how to link differentiation with gradient; • the different methods of collecting data. • the binomial expansion.						
	End of Unit Assessment															
	Year 12 Pure and Mechanics		Pure C2 - Quadratics		Pure C3 - Equations and Inequalities	Pure C7 - Algebraic methods		Initial Assessment	Pure C7 - Algebraic methods		Pure C9 - Trigonometric Ratios		Pure C10 - Trig identities and equations			Pure C11 - Vectors
			Pupils will know: • quadratics; • how to solve simultaneous equations; • how to solve linear and quadratic simultaneous equations; • algebraic methods.							Pupils will know: • trigonometric identities; • trigonometric ratios.						
	End of Unit Assessment															
Year 13	Year 13 Pure and Stats		Radians		Trigonometric functions		Trigonometry and modelling				Parametric equations	Year 13 Trial Exams Fortnight		Parametric equations		Differentiation
			Pupils will know: • radians; • the reciprocal trigonometric functions; • how to solve trigonometric equations in a given range.							Pupils will know: • trigonometry and modelling; • parametric equations.						
	End of Unit Assessment															
	Year 13 Pure and Mechanics		Algebraic methods		Functions and graphs		Vectors			Moments		Year 13 Trial Exams Fortnight		Forces and Friction		Projectiles
			Pupils will know: • algebraic methods; • functions and graphs; • vectors.							Pupils will know: • moments; • forces and friction; • projectiles.						
	End of Unit Assessment															

		HT3						HT4					HT5						HT6						
		HT3 - 1	HT3 - 2	HT3 - 3	HT3 - 4	HT3 - 5	HT3 - 6	HT4 - 1	HT4 - 2	HT4 - 3	HT4 - 4	HT4 - 5	HT5 - 1	HT5 - 2	HT5 - 3	HT5 - 4	HT5 - 5	HT5 - 6	HT6 - 1	HT6 - 2	HT6 - 3	HT6 - 4	HT6 - 5	HT6 - 6	HT6 - 7
		Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39
Year 7	Year 7	Algebra - number sequences		Algebra - notation and substitution		Algebra - equations and expressions		Number - addition and subtraction of fractions			Geometry and Measures - angles in polygons		Probability - sets and probability		Number - properties of number		Number - rounding and estimating		Geometry and Measures - time	Statistics - averages and range	Learning Review Week and Assessment window	Statistics - averages and range (continue d)	Statistics - graphing data		
	End of Unit Assessment	Assessment 5: sequences		Assessment 6: notation and substitution		Assessment 7: equations and expressions		Assessment 8: addition and subtraction of fractions			Assessment 9: angles in polygons		Assessment 10: sets and probability		Assessment 11: properties of number		Assessment 12: rounding, estimating and time								
		pupils will be able to understand numerical sequences pupils will be able to understand algebraic notation and substitution pupils will be able to work with equations and expressions						pupils will be able to add and subtract fractions pupils will be able to find missing angles in diagrams and polygons					pupils will be able to understand sets and probability pupils will be able to develop number sense and derive facts using other facts						pupils will be able to understand prime numbers and proof pupils will be able to calculate averages and range pupils will be able to graph data						
Year 8	Year 8	Geometry and Measures - Line symmetry and reflection	Geometry and Measures - Area, volume, density		Algebra - Equations and inequalities		Number - Percentages			Algebra - Indices		Number - Standard Form Index	Statistics - Interpret and Represent Data		Geometry and Measures - angles in parallel lines and polygons		Probability - Tables and probability			Geometry and Measures - Circles	Learning Review Week and Assessment window	Geometry and Measures - Circles	Statistics - Graphs and charts		Algebra - Sequences
	End of Unit Assessment	Assessment 5: line symmetry and	Assessment 6: area, volume, density		Assessment 7: equations and inequalities		Assessment 8: percentages			Assessment 9: indices		Assessment 10: standard form	Assessment 11: interpret and represent data		Assessment 12: angles in parallel lines and polygons		Assessment 13: tables and probability								
		pupils will be able to understand line symmetry and reflection pupils will be able to calculate area, volume and density pupils will be able to solve equations and inequalities pupils will be able to calculate with percentages						pupils will be able to calculate with percentages pupils will be able to explore indices pupils will be able to work with numbers in standard index form					pupils will be able to interpret and represent data pupils will be able to find missing angles in parallel lines and polygons pupils will be able to calculate probability from tables and diagrams						pupils will be able to calculate probability from tables and diagrams pupils will be able to explore circles pupils will be able to draw charts and graphs pupils will be able to explore sequences						
Year 9	Year 9	Algebra - Equations, inequalities, and formulae	Ratio and Proportion - Rates		Algebra - Straight Line Graphs		Ratio and Proportion - Ratio and proportion		Geometry and Measures - Constructions and Congruence		Geometry and Measures - similarity	Algebra - Algebraic manipulation		Number - Standard form (and laws of indices recap)	Geometry and Measures - Pythagoras' Theorem		Geometry and Measures - Trigonometry		Learning Review Week and Assessment window	Algebra - simultaneous equations		Algebra - Non-linear graphs		Geometry and Measures - Transformations
	End of Unit Assessment	Assessment 6: equations, inequalities and formulae	Assessment 7: rates		Assessment 8: straight line graphs		Assessment 9: ratio and proportion		Assessment 10: constructions and congruence		Assessment 11 - similarity	Assessment 12 - algebraic manipulation		Assessment 13 - standard form	Assessment 14 - Pythagoras' Theorem		Assessment 15 - trigonometry					Assessment 16: non-linear graphs		
		pupils will be able to solve equations, inequalities and work with formulae pupils will be able to explore rates pupils will be able to explore straight line graphs						pupils will be able to work with ratio and proportion pupils will be able to construct shapes and diagrams and identify congruence pupils will be able to explore mathematically similar shapes					pupils will be able to manipulate algebra pupils will be able to calculate with standard form pupils will be able to find missing sides in right angled triangles using Pythagoras' theorem						pupils will be able to find missing sides and angles in triangles using trigonometry pupils will be able to solve simultaneous equations pupils will be able to explore non-linear graphs pupils will be able to transform shapes on a grid						
Year 10	Year 10	Learning Review Week and Assessment window	Probability		Algebra - Straight Line Graphs	Number - Rounding and estimating		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 and Powers		Year 10 Trial Exams	Geometry and Measures - Pythagoras and Trigonometry		Algebra - simultaneous equations
	End of Unit Assessment				Assessment 7: Straight line graphs	Assessment 8: rounding and		Assessment 9: perimeter, area and volume		Assessment 10: interpret and represent data		Assessment 11: non-linear graphs		Assessment 12: angles		Assessment 13: graphs and diagrams		Assessment 14: vectors							
		pupils will be able to calculate probabilities pupils will be able to explore straight line graphs pupils will be able to round and estimate answers						pupils will be able to calculate perimeter, area and volume pupils will be able to interpret and represent data pupils will be able to explore non-linear graphs					pupils will be able to find missing angles in diagrams and shapes pupils will be able to draw graphs and diagrams pupils will be able to explore vectors						pupils will be able to explore factors and powers pupils will be able to apply Pythagoras and Trigonometry pupils will be able to solve simultaneous equations						
Year 11	Year 11				Algebra - functions (higher only!)		Year 11 Trial Exam Window			Ratio and Proportion - multiplicative reasoning		Geometry and Measures - geometrical reasoning		Probability and Statistics - listing and describing		Algebra - Algebraic reasoning								
	End of Unit Assessment	Assessment 4: loci and construction	Assessment 5: gradients and lines	Assessment 6: non linear graphs and using graphs	Past paper focus					Past paper focus		Past paper focus		Past paper focus		Past paper focus								
		pupils will be able to explore non-linear graphs and use them pupils will be able to explore functions pupils will be able to reason multiplicatively						pupils will be able to reason multiplicatively pupils will be able to reason geometrically pupils will be able calculate probability and statistics					pupils will be able to reason algebraically												
Resit Maths	Resit	Angle properties in shape	Accuracy		Circles			Probability		Sequences		Quadratics		Ratio and compound measures		Proportion		Statistical graphs and measures	Transformations of shapes and vectors		Bivariate data		Volume and surface area		
		pupils will be able to explore angle properties in shapes pupils will be able to work with circles						pupils will be able to calculate probabilities pupils will be able to explore sequences pupils will be able to explore quadratics					pupils will be able to explore ratio and compound measures pupils will be able to explore proportion pupils will be able to use and interpret statistical graphs and measures						pupils will be able to transform shapes and explore vectors pupils will be able to explore volume and surface area						
	End of Unit Assessment																								
Year 12	Year 12 Pure and Stats						Stats C3- Representation of data	Learning Review Week and Assessment window	Stats C3- Representation of data	Stats C4 - Correlation		Stats C5- Probability		Stats C6 - Statistical Distributions		Stats C7 - Hypothesis Testing			Pure 2 C5 - Radians	Learning Review Week and Assessment window	Pure 2 C5 - Radians	Pure 2 C8 - Trigonometric functions		Work Experience	Ucas Week
		Stats C1- data collection		Stats C2 - Measures of location and spread				Pupils will know: • probability; • the binomial distribution.					Pupils will know: • hypothesis testing. • statistical distributions						Pupils will know: • radians; • the reciprocal trigonometric functions; • how to solve trigonometric equations in a given range.						
	End of Unit Assessment																								
	Year 12 Pure and Mechanics						Pure C13 - Integration	Learning Review Week and Assessment window	Pure C13 - Integration	Mech C8 - Modelling		Mech C9 - Constant acceleration		Mech C10 - Forces and Motion			Mech C11 - Variable acceleration		Pure 2 C1 - Algebraic methods	Learning Review Week and Assessment window	Pure 2 C1 - Algebraic methods	Pure 2 C2 - Functions and Graphs		Work Experience	Ucas Week
		Pure C14 - Exponential Modelling						Pupils will know: • constant acceleration; • motion in two dimensions. • mathematical modelling.					Pupils will know: • forces and motion; • variable acceleration.						Pupils will know: • algebraic methods; • functions and graphs;						
	End of Unit Assessment																								
Year 13	Year 13 Pure and Stats						Sequences and series	Year 13 Trial Exams Fortnight		Sequences and series CONTINUED		Binomial expansion continued	Regression, correlation & hypothesis testing		Conditional probability		The Normal distribution								
								Pupils will know: • the binomial expansion; • further hypothesis testing.					Pupils will know: • conditional probability; • the normal distribution.												
	End of Unit Assessment																								
	Year 13 Pure and Mechanics						Integration	Year 13 Trial Exams Fortnight		Integration continued					Numerical methods		Further Kinematics		Review of Year 13						
								Pupils will know: • integration.					Pupils will know: • numerical methods; • further kinematics.												
	End of Unit Assessment																								