

	Year: 9		Pathway: Pi		Subject: Mathematics		
	IMPLEMENTATION						
INTENT (including key concepts and skills)	Half Term 1 Key Vocabulary: Simplify, sequence, equation, data, correlation Prior Learning / LTM: Year 8 half term 4 skills Cultural Capital: Collecting data proficiently	Half Term 2 Key Vocabulary: Numerator, denominator, recurring, angle, scale, construct, Pythagoras Prior Learning / LTM: Year 7 half term 5 skills Year 8 half term 3 skills Cultural Capital: Interpreting scales	Half Term 3 Key Vocabulary: Graph, gradient, proportion, metric, imperial Prior Learning / LTM: Year 7 half term 2 skills Cultural Capital: Recipe problems	Half Term 4 Key Vocabulary: Substitution, area, circumference, probability, chance Prior Learning / LTM: Year 7 half term 4 skills Year 8 half term 5 skills Cultural Capital: Gambling awareness	Half Term 5 Key Vocabulary: Angle, enlargement, congruence Prior Learning / LTM: Year 7 half term 5 skills Cultural Capital: Enlarging images	Half Term 6 (Start GCSE) Key Vocabulary: Accuracy, estimate, indices, factor, multiple, prime Prior Learning / LTM: Year 8 half term 3 Cultural Capital: Working with money	
	NUMBER Calculate fluently with integers, fractions and decimals		x				x
	ALGEBRA Use of variables to represent unknown values	x		x	x		
	RATIO Understand how ratios including percentages are used		x	x			
	GEOMETRY Use properties of shapes to solve problems		x		x	x	
	STATISTICS Perform calculations with data sets to draw conclusions	x					
	PROBABILITY Compare theoretical and experimental probabilities				x		
	IMPACT	Assessment: Topic Assessment Progression to KS4: Designing data tables	Assessment: Topic Assessment Progression to KS4: Bearings	Assessment: Topic Assessment Progression to KS4: Area and volume metric units	Assessment: Topic Assessment Progression to KS4: Area of trapeziums	Assessment: Topic Assessment Progression to KS4: Fractional enlargement	Assessment: Topic Assessment Progression to Year 11: Graphs – negative values

Cultural Capital is the body of knowledge a student needs so that they can flourish in the future and not be left behind. LTM = Long Term Memory.

	Year: 9		Pathway: Theta		Subject: Mathematics	
	IMPLEMENTATION					
INTENT (including key concepts and skills)	Half Term 1 Key Vocabulary: Substitution, expand, factorise, average, correlation Prior Learning / LTM: Year 7 half term 2 skills Cultural Capital: Collecting data proficiently	Half Term 2 Key Vocabulary: Enlarge, percentage change, scale, construct Prior Learning / LTM: Year 8 half term 5 Cultural Capital: Sales and discounts	Half Term 3 Key Vocabulary: Solve, recurring, circumference, area, volume, Pythagoras, bound Prior Learning / LTM: Year 8 half term 2 skills Cultural Capital: Recipe problems	Half Term 4 Key Vocabulary: Sequence, graph, simultaneous, probability Prior Learning / LTM: Year 7 half term 3 skills Year 9 half term 1 skills Cultural Capital: Gambling awareness	Half Term 5 Key Vocabulary: Congruent, similar, adjacent, opposite, hypotenuse Prior Learning / LTM: Year 9 half term 2 skills Cultural Capital: Using clinometers to find heights of buildings	Half Term 6 (Start GCSE) Key Vocabulary: Accuracy, estimate, indices, factor, multiple, prime Prior Learning / LTM: Year 8 half term 3 Cultural Capital: Working with money
NUMBER Calculate fluently with integers, fractions and decimals			x			x
ALGEBRA Use of variables to represent unknown values	x		x		x	
RATIO Understand how ratios including percentages are used		x				
GEOMETRY Use properties of shapes to solve problems		x	x		x	
STATISTICS Perform calculations with data sets to draw conclusions	x					
PROBABILITY Compare theoretical and experimental probabilities				x		
IMPACT	Assessment: Topic Assessment Progression to KS4: Quadratic expressions	Assessment: Topic Assessment Progression to KS4: Loci	Assessment: Topic Assessment Progression to KS4: Arc length and sector area	Assessment: Topic Assessment Progression to KS4: Venn diagrams	Assessment: Topic Assessment Progression to KS4: Enlargement	Assessment: Topic Assessment Progression to Year 11: Graphs – negative values

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	Year: 9		Pathway: Delta		Subject: Mathematics	
IMPLEMENTATION						
INTENT (including key concepts and skills)	Half Term 1 Key Vocabulary: Sequence, expand, factorise, quadratic, linear Prior Learning / LTM: Year 8 half term 1 skills Cultural Capital: Using formulae	Half Term 2 Key Vocabulary: Data, cumulative, frequency, proportion Prior Learning / LTM: Year 7 half term 1 skills Year 8 half term 1 skills Cultural Capital: Analysing data	Half Term 3 Key Vocabulary: Quadratic, speed, density, pressure, bounds Prior Learning / LTM: Year 7 term 2 skills Year 8 term 2 skills Cultural Capital: Speed calculations	Half Term 4 Key Vocabulary: Simultaneous, opposite, adjacent, hypotenuse, similar Prior Learning / LTM: Year 8 term 1 skills Year 9 term 1 skills Cultural Capital: Using clinometers to find heights of buildings	Half Term 5 Key Vocabulary: Proof, contradiction Prior Learning / LTM: Year 9 term 1 skills Cultural Capital: Justification of statements	Half Term 6 (Start GCSE) Key Vocabulary: Indices, standard form, surds, HCF, LCM Prior Learning / LTM: Year 8 half term 6 skills Cultural Capital: Speed of light
NUMBER Calculate fluently with integers, fractions and decimals						x
ALGEBRA Use of variables to represent unknown values	x		x		x	
RATIO Understand how ratios including percentages are used		x	x	x		
GEOMETRY Use properties of shapes to solve problems		x				
STATISTICS Perform calculations with data sets to draw conclusions		x				
PROBABILITY Compare theoretical and experimental probabilities						
IMPACT	Assessment: Topic Assessment Progression to KS4: Algebraic fractions	Assessment: Topic Assessment Progression to KS4: Median from histogram	Assessment: Topic Assessment Progression to KS4: Circular graphs	Assessment: Topic Assessment Progression to KS4: Advanced trigonometry	Assessment: Topic Assessment Progression to KS4: Formal proof	Assessment: Topic Assessment Progression to Year 11: Rationalising denominator

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