

	Year: 8		Pathway: Pi		Subject: Mathematics	
	IMPLEMENTATION					
INTENT (including key concepts and skills)	Half Term 1 Key Vocabulary: Net, face, units, data, frequency Prior Learning / LTM: Year 7 half term 1 skills Cultural Capital: Isometric drawing	Half Term 2 Key Vocabulary: Simplify, solve, expand, round Prior Learning / LTM: Year 7 half term 2 skills Cultural Capital: Money calculations	Half Term 3 Key Vocabulary: Angle, vertically opposite, power, HCF, LCM, prime Prior Learning / LTM: Year 7 half term 3 skills Cultural Capital: Converting metric units	Half Term 4 Key Vocabulary: Sequence, fraction, percentage Prior Learning / LTM: Year 7 half term 5 skills Cultural Capital: Sales and discounts	Half Term 5 Key Vocabulary: Probability, chance, theoretical Prior Learning / LTM: Simplifying fractions Cultural Capital: Gambling awareness	Half Term 6 Key Vocabulary: Estimating, decimal, negative, square, cube Prior Learning / LTM: Year 7 half term 3 numeracy skills Cultural Capital: Estimating amounts
NUMBER Calculate fluently with integers, fractions and decimals		x	x			x
ALGEBRA Use of variables to represent unknown values		x		x		
RATIO Understand how ratios including percentages are used				x		
GEOMETRY Use properties of shapes to solve problems	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: Volume of a prism	Assessment: Topic Assessment Progression to KS4: Solving linear equations	Assessment: Topic Assessment Progression to KS4: Interior and exterior angles	Assessment: Topic Assessment Progression to KS4: Nth term	Assessment: Topic Assessment Progression to KS4: Sample space diagrams	Assessment: Topic Assessment Progression to KS4: Decimal calculations

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: 8		Pathway: Theta		Subject: Mathematics		
IMPLEMENTATION							
INTENT (including key concepts and skills)	Half Term 1 Key Vocabulary: Area, net, volume, unit, chart Prior Learning / LTM: Year 7 half term 2 geometry skills Cultural Capital: Isometric drawing	Half Term 2 Key Vocabulary: Expand, simplify, factorise, graphs Prior Learning / LTM: Year 7 half term 2 algebra skills Cultural Capital: Interpreting real-life graphs	Half Term 3 Key Vocabulary: Decimal, parallel, perpendicular, angle Prior Learning / LTM: Year 7 half term 4 skills Cultural Capital: Working with money	Half Term 4 Key Vocabulary: Numerator, denominator, reciprocal, gradient Prior Learning / LTM: Year 7 half term 5 skills Cultural Capital: Understanding fractions	Half Term 5 Key Vocabulary: Percentage, equivalence Prior Learning / LTM: Year 7 half term 3 skills Cultural Capital: Sales and discounts	Half Term 6 Key Vocabulary: Indices, estimating, standard form Prior Learning / LTM: Year 7 half term 6 skills Cultural Capital: Distances of planets	
	NUMBER Calculate fluently with integers, fractions and decimals			x	x		x
	ALGEBRA Use of variables to represent unknown values		x		x		
	RATIO Understand how ratios including percentages are used				x	x	
	GEOMETRY Use properties of shapes to solve problems	x		x			
	STATISTICS Perform calculations with data sets to draw conclusions	x					
	PROBABILITY Compare theoretical and experimental probabilities						
	IMPACT	Assessment: Topic Assessment Progression to KS4: Volume of prisms	Assessment: Topic Assessment Progression to KS4: Quadratic expressions	Assessment: Topic Assessment Progression to KS4: Interior and exterior angles	Assessment: Topic Assessment Progression to KS4: Mixed fractions	Assessment: Topic Assessment Progression to KS4: Enlargement	Assessment: Topic Assessment Progression to KS4: Standard form calculations

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	Year: 8		Pathway: Delta		Subject: Mathematics	
	IMPLEMENTATION					
INTENT (including key concepts and skills)	Half Term 1 Key Vocabulary: Simplify, expand, circumference, area, volume, Pythagoras Prior Learning / LTM: Year 7 half term 5 skills Cultural Capital: Drawing the different views of a 3D shape	Half Term 2 Key Vocabulary: Proportion, rate of change, rotation, reflection, translation, enlargement Prior Learning / LTM: Year 7 half term 4 skills Cultural Capital: Interpreting real-life graphs	Half Term 3 Key Vocabulary: Recurring, repeated change, construct, bisect Prior Learning / LTM: Year 7 half term 3 skills Cultural Capital: Sales and discounts	Half Term 4 Key Vocabulary: Probability, experiment, theoretical, scale, bearing, congruent Prior Learning / LTM: Simplifying fractions Cultural Capital: Gambling awareness	Half Term 5 Key Vocabulary: Graph, parallel, perpendicular, inverse, non-linear Prior Learning / LTM: Year 7 half term 5 skills Cultural Capital: Understanding graph of how things cool down	Half Term 6 Key Vocabulary: Indices, standard form, surd Prior Learning / LTM: Year 7 half term 6 skills Cultural Capital: Distances of planets
NUMBER Calculate fluently with integers, fractions and decimals			x			x
ALGEBRA Use of variables to represent unknown values	x				x	
RATIO Understand how ratios including percentages are used		x	x			
GEOMETRY Use properties of shapes to solve problems	x	x	x	x		
STATISTICS Perform calculations with data sets to draw conclusions						
PROBABILITY Compare theoretical and experimental probabilities				x		
IMPACT	Assessment: Topic Assessment Progression to KS4: Arc length and sector area	Assessment: Topic Assessment Progression to KS4: Negative enlargement	Assessment: Topic Assessment Progression to KS4: Loci	Assessment: Topic Assessment Progression to KS4: Venn diagrams	Assessment: Topic Assessment Progression to KS4: Quadratic graphs	Assessment: Topic Assessment Progression to KS4: Manipulating surds

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