Maths LTP: Coverage and Progression

Long Term Plan

Year Group: 5

	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
Aut	Place Value			Addition and Subtraction		Multiplication and Division A			Fractions A				Consolidation	Assessment Week
Spr	Multiplication and Division B			Fractions B		Decimals and Percentages			Perimeter and Area		Statistics		Consolidation	Assessment Week
Sum	Shape			Position and Direction		Decimals			Negative Numbers	Converting Units		Volume	Consolidation	Assessment Week

Autumn Term: Breakdown of small steps across the year: Based on White Rose Maths Scheme of Learning

	Autumn 1							Autumn 2						
	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**
	Place Value			**Addition and Subtraction**		**Multiplication and Division**			**Fractions A**				**Consolidation**	**Assessment Week**
Small Steps (WRM)	Roman numerals to 1,000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000	Powers of 10 10/100/1,000/ 10,000/100,000 more or less Partition to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000	Compare and order number to 1,000,000 Round to the nearest 10,100, 1,000 Round within 100,000 Round within 1,000,000	Mental Strategies Add whole numbers with more than 4 digits Subtract whole numbers with more than 4 digits Round to check answers	Inverse operation (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers	Multiples Common multiples Factors Common factors	Prime Numbers Square Numbers Cube Numbers	Multiply by 10, 100, 1,000 Divide by 10, 100, 1,000 Multiples of 10, 100, 1,000	Find fractions equivalent to a unit fraction Find fractions equivalent to non-unit fractions Recognise equivalent fractions Convert improper fractions to mixed numbers	Conver mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1	Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers	Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the whole Subtract two mixed numbers		
Supporting Resources	**NCETM Spine**: 1.26 1.27 (negative numbers)			**NCETM Spine**: revisit 1.22 (TP 3 and TP5) and 1.20, 1.21 for written methods. 1.29 (strategies and mental methods as opposed to written. Includes decimals) 1.29 (TP 3 difference) 1.29 (TP 6 estimate, approximate, inverse) 1.28 (multi-step problems)		**NCETM Spine**: 2.21 (factors multiples prime) 2.9 (square numbers) 2.13 (mult divide 10,100,100) 2.19 (10,100,1000) 2.20 (cube numbers) 2.18 (maybe stand alone as equivalence)			**NCETM Spine:** revisit parts of earlier fractions to prepare for topic (3.1, 3.2, 3.3, 3.4) 3.7 (equivalents and simplifying, compare order), 3.8 (add and subtract), 3.5 improper and mixed, 3.6 multiplying					
Vocab	Place value, digit, value, decimal, whole number, decimal point, thousands, hundreds, tens, ones, units, tenths, hundredths, thousandths, numerical value, expanded form, standard form, rounding, estimation, comparison			Addition, subtraction, sum, difference, addend, subtrahend, minuend, regrouping, carry, borrow, column addition, column subtraction, mental calculation, estimation, rounding,		Multiplication, division, product, quotient, factor, multiple, dividend, divisor, remainder, array, commutative property, prime number, composite number, factorization			Fraction, numerator, denominator, proper fraction, improper fraction, mixed number, equivalent fractions, simplifying fractions, common denominator, LCD, LCM unit fraction					

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Aut	Place Value			Addition and Subtraction		Multiplication and Division A			Fractions A				Consolidation	Assessment Week
Spr	Multiplication and Division B			Fractions B		Decimals and Percentages			Perimeter and Area		Statistics		Consolidation	Assessment Week
Sum	Shape			Position and Direction		Decimals			Negative Numbers	Converting Units		Volume	Consolidation	Assessment Week

Spring Term: Breakdown of small steps across the year: Based on White Rose Maths Scheme of Learning

	Spring 1							Spring 2						
	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**
	Multiplication and Division B			**Fractions B**		**Decimals and Percentages**			**Perimeter and Area**		**Statistics**		**Consolidation**	**Assessment**
Small Steps (WRM)	Multiply up to a 4-digit number by a 1-digit number Multiply a 2-digit number by a 2-digit number (Area Model) Multiply a 3-digit number by a 2-digit number	Multiply a 4-digit number by a 2-digit number Solve problems with multiplication Short division Divide a 4-digit number by a 1-digit number	Divide with remainders Efficient division Solve problems with multiplication and division	Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer	Calculate a fraction of a quantity Fraction of an amount Find the whole Use fractions as operators	Decimals up to 2 decimal places Equivalent fractions and decimals (tenths) Equivalent fractions and decimals (hundredths) Equivalent fractions and decimals Thousandths as fractions	Thousandths as decimals Thousandths on a place value chart Order and compare decimals (same number of decimal places) Order and compare any decimal with up to 3 decimal places Round to the nearest whole number	Round to 1 decimal place Understand percentages Percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals and percentages	Perimeter of rectangles Perimeter of rectilinear shapes Perimeter of polygons	Area of rectangles Area of compound shapes Estimate area	Draw line graphs Read and interpret line graphs	Read and interpret tables Two-way tables read and interpret timetables		
Supporting Resources	**NCETM Spine**: 2.23 (area model) 2.15 (division) 2.14 (written multiplication)			**NCETM Spine**: revisit parts of earlier fractions to prepare for topic (3.1, 3.2, 3.3, 3.4) 3.7 (equivalents and simplifying, compare order), 3.8 (add and subtract), 3.5 improper and mixed, 3.6 multiplying		**NCETM Spine:** continue from y4 1.23 and 1.24 (1/10, 1/100, 1/000ths) 1.24 (TP 3 compare and order) 3.10 FDP (TP1,TP2,TP4, TP5)			**NCETM Spine**: revisit 2.16		**NCETM Spine:** some examples in 1.28 and 1.29			
Vocab	Multiplication, division, product, quotient, factor, multiple, dividend, divisor, remainder, array, commutative property, prime number, composite number, factorization			Fraction, numerator, denominator, proper fraction, improper fraction, mixed number, equivalent fractions		Decimal, decimal point, place value, tenths, hundredths, thousandths, decimal fraction, decimal notation, decimal place, rounding, percent, percentage, percent symbol,			Perimeter, area, length, width, measure, radius, diameter, circumference, square area		Data, statistics, survey, analysis, representation, frequency, bar/line/pictograph, mean, mode, median, range, probability			

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Aut	Place Value			Addition and Subtraction		Multiplication and Division A			Fractions A				Consolidation	Assessment Week
Spr	Multiplication and Division B			Fractions B		Decimals and Percentages			Perimeter and Area		Statistics		Consolidation	Assessment Week
Sum	Shape			Position and Direction		Decimals			Negative Numbers	Converting Units		Volume	Consolidation	Assessment Week

Summer Term: Breakdown of small steps across the year: Based on White Rose Maths Scheme of Learning

	Summer 1							Summer 2						
	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**
	Shape			**Position and Direction**		**Decimals**			**Negative Numbers**	**Converting Units**		**Volume**	**Consolidation**	**Assessment Week**
Small Steps (WRM)	Understand and use degrees Classify angles Estimate angles	Measure angles up to 180° Draw lines and angles accurately Calculate angles around a point	Calculate angles on a straight line Lengths and angles in shapes Regular and irregular polygons 3D shapes	Read and plot coordinates Problem solving with coordinates Translation	Translation with coordinates Lines of symmetry Reflection in horizontal and vertical lines	Use known facts to add and subtract decimals within 1 Compliments to 1 Add and subtract decimals across 1	Add decimals with the same number of decimal places Subtract decimals with the same number of decimal places Add decimals with different number of decimal places	Subtract decimals with different number of decimal places Efficient strategies for adding and subtracting decimals Decimal sequences Multiply by 10, 100, 1,000	Understand negative numbers Count through 0 in 1s Count through zero in multiples Compare and order negative numbers Find the difference	Kilograms and kilometres Millimetres and Millilitres Convert units of length	Convert between metric and imperial units Convert units of time Calculate with timetables	Cubic centimetres Compare volume Estimate volume Estimate capacity		
Supporting Resources	**NCETM Spine:** N/A 1.28 (some ideas in TP4)			**NCETM Spine** 1.27 TP 6		**NCETM Spine:** ref back to 1.23 TP 4 -6 1.24 (TP 4 & 6) 2.19 TP 2 and 2.29 (decimals by 10,100,1000)				**NCETM Spine**: (1.24 TP5)		**NCETM Spine**: 2.20		
Vocab	Polygon, triangle, quadrilateral, rectangle, square, rhombus, parallelogram, pentagon, hexagon, octagon, circle, radius, diameter, semi-circle, permitter, area, volume, symmetry, congruent			Left, right, up, down, north, south, east, west, forward, backward, clockwise, anticlockwise, coordinates, grid, map, compass, route, navigation		Place value, tenths, hundredths, thousandths, decimal fraction, decimal notation, ordering, equivalent			Positive, negative, integers, number line	Conversion, metric, imperial, length, distance, mass, weight, capacity, volume, km, m, cm, mm, kg, g, l, ml		Capacity, cubic unit, cm3, base, height, width, depth		