Mathematics Teaching sequence – Year 4

Year 4		
Autumn Term (7 weeks + 7 weeks = 14 weeks)	Small steps	Key vocab
Number and Place value (4 weeks)	Represent numbers to 1,000	Ones
4N1 Count in multiples of 6, 9, 25 and 1000	Partition numbers to 1,000	Tens
	Number line to 1,000	Hundreds
4N2 Order and compare numbers beyond 1000	Thousands	Thousands
	Represent numbers to 10,000	Place value
4N2b Find 1000 more or less than a given number	Partition numbers to 10,000	Partition
	Flexible partitioning of numbers to	More
4N3a Recognise the place value of each digit in a four digit	10,000	Less
number	Find 1,10,100, 1,000 more or less	Greater than
(thousands, hundreds, tens and ones)	Number line to 10,000	Less than
	Estimate on a number line to	Compare
4N4a Identify, represent and estimate numbers using	10,000	Equal to
different representations	Compare numbers to 10,000	Order
	Order numbers to 10,000	Ascending
4N4b Round any number to the nearest 10, 100 or 1000	Roman Numerals	Descending
	Round to the nearest 10	Exchange
4N5 Count backwards through zero to include negative	Round to the nearest 100	Round
numbers	Round to the nearest 1,000	Multiples
	Round to the nearest 10,100 or	Digits
4N6 Solve number and practical problems that involve	1,000	Estimate
4N1-4N5 and with increasingly large positive numbers.		
Addition and subtraction (2 weeks)	Add and subtract 1s, 10s, 100s and	Addition/add
AC2 Add and subtract numbers with up to 4 digits using	1000c	Subtraction/subtract/take away
formal written methods of columnar addition and	Add up to two 4 digit numbers no	More than
subtraction	exchange	Less than
Subtraction	Add two 4 digit numbers one	Digite
AC3 Estimate and use inverse operations to check answers	eychange	Total/sum
to a calculation	Add two A-digit numbers - more	Combine
	than one exchange	Mental (method)
4C4 solve addition and subtraction two-step problems in	Subtract two 4-digit numbers - no	Formal method
contexts deciding which operations and methods to use	exchange	Column
and why	Subtract two 4-digit numbers one	Exchange
	exchange	Place value
	Subtract two 4-digit numbers -	Inverse
	more than one exchange	Altogether
	Efficient subtraction	Calculation
	Estimate answers	Commutativity/commutative
	Checking strategies	
	Solve addition and subtraction	
	two-step problems in contexts	
	(this step isn't on White Rose, but	
	please spend a couple of lessons at	
	end of unit applying column in	
	multi-step problems)	
	Encourage drawing	
	problems/drawing bar models to	
	assist comprehension of problems.	
Measure – Area (1 week) (Note: children encounter area		
for the first time in Yr4)	What is area?	area
4M/b Find the area of rectilinear shapes by counting	Count squares	count
squares	Make shapes	squares
	Compare areas	rows
		arrays
		count systematically
NTS assessment week		I CUILIBIES
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 Multiplication and Division (4 weeks) 4C6a Recall multiplication and division facts for multiplication tables up to 12 × 12 4C6b Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers 4C6c Recognise and use factor 	Multiples of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts The 3,6, and 9 times-tables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts Multiply by 1 and 0 Divide a number by 1 and itself Multiply three numbers Note: the last two steps of this	multiple multiply lots of groups of times what is the product of? commutative divide share share equally remiander dividend, divisor, quotient factor
pairs and commutativity	journey are in Spring Term White	factor pairs
in mental calculations	Rose): Factor pairs	systematic systematically
	Use factor pairs	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Teaching factor pairs door (Parts	
	Teaching Guidance for Factors)	
Spring Term -16 weaks ± 7 weaks -12 weaks)	Small steps	Keyyocab
Spining Terrin – (6 weeks + 7 weeks – 15 weeks)	Shiali steps	
Multiplication and division (3 weeks)	Multiply by 10	Multiply/times/lots of/groups of
4C7 Multiply two-digit and three-digit numbers by a one- digit number using formal written layout	Multiply by 100 Divide by 10	Product
	Divide by 100	Expanded method
4C7b Divide numbers up to 3 digits by a one-digit number	Related facts – multiplication &	Short multiplication/compact method
using the formal written method of short division	division	Divide/share
4C8 Solve problems involving X and +, including using the distributive law to multiply 2 digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	See separate document for the following steps: <u>Year 4 teaching of</u> <u>Multiplication and Division small</u> <u>steps.docx</u> Multiply a 2-digit number by a 1- digit number Multiply a 3-diigit number by a 1- digit number Divide a 2-digit number by a 1-digit number Divide a 3-digit number by a 1-digit number	Divisor Partition the dividend Remainder Short division
Measurement – Length and perimeter (2 weeks) 4M5 Convert between different units of measurement eg:	Measure in km and m Equivalent lengths (km and m)	length, km, m equal
4M7a Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Perimeter of a grid Perimeter of a rectangle Perimeter of rectilinear shapes Calculate perimeter of rectilinear	distance perimeter Polygon
A cm 7 cm 4 cm 7 cm 4 cm 7 cm Note: (Teach the children to write out an addition sentence when finding perimeter e.g. 7 + 7 + 4 + 4 = 22cm. This will avoid confusion when they come to use L x W for area in Yr 5.	shapes Perimeter of regular polygons Perimeter of polygons	Cm, m
Fractions (4 weeks) 4F2 Recognise and show, using diagrams, families of common equivalent fractions	Understand the whole Count beyond 1 Partition a mixed number	Fraction Numerator Denominator
4F4 Add and subtract fractions with the same denominator	Compare and order mixed numbers numbers	Unit fraction Non-unit fraction

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	Convert mixed numbers to	Whole
fractions to divide quantities, including non-unit fractions	improper fractions	Whole number
where the answer is a whole number	Convert improper fractions to	Add
	mixed numbers. Numicon can help	Subtract
	this small step: NUMICON	Quantities
	improper fractions and mixed	Greater than
	numbers docx	Less than
	Indifficers.docx	
	Equivalent fractions on a number	
	line	
	Equivalent fractions families	
	Add two or more fractions	
	Add fractions and mixed numbers	
	Subtract two fractions	
	Subtract from whole amounts	
	Subtract from mixed numbers	
NTS assessment week		
Decimals (3 weeks)		
4F1 Count up and down in hundredths; recognise that	Tenths as fractions	Hundredths
hundredths arise when dividing an object by a hundred	Tenths as decimals	Tenths
and dividing tenths by ten	Tenths on a place value chart	Ones
	Tenths on a number line	Divide/dividing
4F6a Recognise and write decimal equivalents to 1/4, 1/2	Divide a 1-digit number by 10	Decimals
and ¾	Divide a 2-digit number by 10	Equivalent
	Hundredths as fractions	Compare
4F6b Recognise and write decimal equivalents of any	Hundredths as decimals	Decimal places
number of tenths or hundredths	Hundredths on a place value chart	Place value
	Divide a 1-or2-digit number by 100	
4F7 Round decimals with one decimal place to the nearest		
whole number		
4F8 Compare numbers with the same number of decimal		
places up to two decimal places		
4F9 Find the effect of dividing a 1- or 2 digit number by 10		
and 100, identifying the value of the digits in the answer as		
ones, tenths and hundredths		
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4M2 Estimate different measures, including money in pounds and pence	Calculate with money Solve problems with money	Subtract Change Round
4M5 Convert between different units of measurement [eg: kilometre to metre; hour to minute]		Estimate Cost Decimal point
4M9 Calculate different measures, including money in pounds and pence		Calculate
4F10b Solve simple problems involving fractions and decimals to two decimal places		
 Statistics – (2 weeks) 4S1 Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs 4S2 Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs	Interpret Present Data Discrete data Bar charts Continuous data Time line graph Compare Sum Difference Pictograms Tables
 Measures - time (2 weeks) 4M4a Read, write and convert time between analogue and digital 12-hour clocks 4M4b Read, write and convert time between analogue and digital 24-hour clocks 4M4c Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 4M5 Convert between different units of measurement [eg: kilometre to metre; hour to minute] 	Years, months , weeks and days Hours, minutes and seconds Convert between analogue and digital times Convert to the 24 hour clock Convert from the 24 hour clock	Time Analogue Digital 12-hour 24-hour Convert Seconds Minutes Hours Days Weeks Fortnight Year Months Half/quarter past To/past o'clock) O'clock
 Geometry – Shape (1.5 weeks) 4G2a Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes 4G2b Identify lines of symmetry in 2–D shapes presented in different orientations 4G2c Complete a simple symmetric figure with respect to a specific line of symmetry 4G4 Identify acute and obtuse angles and compare and order angles up to two right angles by size NTS assessment week 	Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure	Degrees Turns Acute, obtuse, reflex Symmetry, symmetrical Polygon 2-dimensional

Position and direction (1 week)		Orientation
4P2 Describe movements between positions as	Describe position using	Translations
translations of a given unit to the left/right and up/down	coordinates	2D grid
	Plot coordinates	Coordinates
4P3a Describe positions on a 2–D grid as co-ordinates in	Draw 2-D shapes on a grid	Quadrant
the first quadrant	Translate on a grid	Plot
	Describe translation on a grid	Polygon
4P3b Plot specified points and draw sides to complete a given polygon		Left/right up/down