

Curriculum Mapping – Y5 (National Curriculum Objectives

WhiteRose Small Steps

NCETM and DfE Ready-to-progress Criteria)

AUTUMN TERM SUMMER TERM **SPRING TERM**

	Number: Place Value	Number: Addition and Subtraction		Number: Multiplication and Division A		Number: Fractions A
•	Read Roman numerals to 1,000 (M) and recognise	-	•	Identify multiples and factors, including finding	•	Identify, name and write equivalent fractions of a
	years written in Roman numerals.	increasingly large numbers.		all factor pairs of a number, and common factors		given fraction, represented visually, including
•	Read, write, order and compare numbers to at	Add and subtract whole numbers with more than		of two numbers.		tenths and hundredths.
	least 1,000,000 and determine the value of each	four digits, including using formal written	•	Solve problems involving multiplication and	•	Recognise mixed numbers and improper
	digit.	methods (columnar addition and subtraction)		division, including using their knowledge of		fractions and convert from one form to the other
•	Solve number problems and practical problems	Solve addition and subtraction multi-step		factors and multiples, squares and cubes.		and write mathematical statements > 1 as a
	involving the above.	problems in contexts, deciding which operations	•	Know and use the vocabulary of prime numbers,		mixed number.
•	Count forwards or backwards in steps of powers	and methods to use and why.		prime factors and composite (non-prime)	•	Compare and order fractions whose
	of 10 for any given number up to 1,000,000.	 Round any number up to 1,000,000 to the 		numbers.		denominators are all multiples of the same
•	Round any number up to 1,000,000 to the nearest		•	Establish whether a number up to 100 is prime		number.
	10, 100, 1,000, 10,000 and 100,000.	 10,000 and 100,000 		and recall prime numbers up to 19	•	Add and subtract fractions with the same
•	Recognise the place value of each digit in	 Use rounding to check answers to calculations 	•	Recognise and use square numbers and cube		denominator, and denominators that are
	numbers with up to 2 decimal places, and	and determine, in the context of a problem,		numbers, and the notation for squared (2) and		multiples of the same number.
	compose and decompose numbers with up to 2	levels of accuracy.		cubed (3)	•	Find equivalent fractions and understand that
	decimal places using standard and non-standard	Apply place-value knowledge to known additive	•	Multiply and divide whole numbers and those		they have the same value and the same position
	partitioning.	and multiplicative number facts (scaling facts by		involving decimals by 10, 100 and 1,000.		in the linear number system.
•	Reason about the location of any number with up	1 tenth or 1 hundredth).	•	Multiply and divide numbers mentally, drawing	1.	Find fractions equivalent to a unit fraction
	to 2 decimals places in the linear number system,	1. Mental strategies (additive reasoning)		upon known facts.		Find fractions equivalent to a non-unit fraction
	including identifying the previous and next	2. Add whole numbers with more than four digits	•	Secure fluency in multiplication table facts, and		Convert improper fractions to mixed numbers
	multiple of 1 and 0.1 and rounding to the nearest	3. Subtract whole numbers with more than four		corresponding division facts, through continued		Convert mixed numbers to improper fractions
	of each.	digits		practice		Compare fractions less than 1
•	Divide 1 into 2, 4, 5 and 10 equal parts, and read	4. Round to check answers	•	Apply place-value knowledge to known additive		Order fractions less than 1
	scales/number lines marked in units of 1 with 2,	5. Inverse operations (addition and subtraction)		and multiplicative number facts (scaling facts by		Compare and order fractions greater than 1
	4, 5 and 10 equal parts.	6. Multi-step addition and subtraction problems		1 tenth or 1 hundredth).	0.	Add and subtract fractions with the same
	Roman numerals to 1,000	7. Compare calculations	•	Multiply and divide numbers by 10 and 100;	0	denominator Add fractions within 1
	Numbers to 10,000	8. Find missing numbers		understand this as equivalent to making a). Add fractions with a total greater than 1
	Numbers to 100,000			number 10 or 100 times the size, or 1 tenth or 1		1. Add to a mixed number
	Numbers to 1,000,000			hundredth times the size.		2. Add two mixed numbers
	Read and write numbers to 1,000,000 Powers of 10		•	Find factors and multiples of positive whole		3. Subtract fractions
	10/100/1,000/10,000/100,000 more or less			numbers, including common factors and common		4. Subtract from a mixed number
	Partition numbers to 1,000,000			multiples, and express a given number as a		5. Subtract from a mixed number – breaking the
	Number line to 1,000,000		1	product of 2 or 3 factors.		whole
	Compare and order numbers to 100,000			Multiples	16	5. Subtract two mixed numbers
	L.Compare and order numbers to 1,000,000			Common multiples Factors		
	2.Round to the nearest 10, 100 or 1,000			Common factors		
	3.Round within 100,000			Prime numbers		
	4.Round within 1,000,000			Square numbers		
				Cube numbers		
				Multiple by 10, 100 and 1,000		
				Divide by 10, 100 and 1,000		
). Multiples of 10, 100 and 1,000		
			1 10			



	Number: Multiplication and Division B		Number: Fractions B		Number: Decimals and Percentages		
•	Multiply numbers up to four digits by a 1- or 2-	•	Multiply proper fractions and mixed numbers by	•	Read, write, order and compare numbers with up	•	Μ
	digit number using a formal written method,		whole numbers, supported by materials and		to 3 decimal places.		CO
	including long multiplication for 2-digit numbers.		diagrams.	•	Read and write decimal numbers as fractions.		m
•	Divide up to four digits by a 1-digit number using	•	Solve problems involving increasingly harder	•	Identify, name and write equivalent fractions of a	•	Ca
	the formal written method of short division and		fractions to calculate quantities, and fractions to		given fraction, represented visually, including		(ir
	interpret remainders appropriately for the		divide quantities, including non-unit fractions		tenths and hundredths.		ur
	context.		where the answer is a whole number (Y4)	•	Solve problems which require knowing		m
•	Solve problems involving multiplication and	•	Find non-unit fractions of quantities.		percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$,		sh
	division, including using their knowledge of	1.	Multiply a unit fraction by an integer		$\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a	•	Сс
	factors and multiples, squares and cubes.	2.	Multiply a non-unit fraction by an integer		multiple of 10 or 25.		re
•	Multiply any whole number with up to 4 digits by	3.	Multiply a mixed number by an integer	•	Recognise and use thousandths and relate them		ur
	any one-digit number using a formal written	4.	· ,		to tenths, hundredths and decimal equivalents.	1.	
	method.	5.		•	Solve problems involving numbers up to 3		. Pe
•	Divide a number with up to 4 digits by a one-digit	-	Find the whole		decimal places.		. Pe
	number using a formal written method, and	//.	Use fractions as operators	•	Round decimals with 2 decimal places to the		. Ar
	interpret remainders appropriately for the				nearest whole number and to 1 decimal place		. Ar
	context.			•	Recognise the per cent symbol (%) and	6.	. Es
1.	Multiply up to a 4-digit number by a 1-digit				understand that per cent relates to "number of		
2	number				parts per 100", and write percentages as a		
Ζ.	Multiply a 2-digit number by a 2-digit number				fraction with denominator 100, and as a decimal		
2	(area model) Multiply a 2 digit pumber by a 2 digit pumber				fraction.		
	Multiply a 2-digit number by a 2-digit number Multiply a 3-digit number by a 2-digit number			•	Know that 10 tenths are equivalent to 1 one, and		
	Multiply a 4-digit number by a 2-digit number				that 1 is 10 times the size of 0.1.		
	Sole problems with multiplication			•	Know that 100 hundredths are equivalent to 1		
	Short division				one, and that 1 is 100 times the size of 0.01.		
	Divide a 4-digit number by a 1-digit number			•	Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.		
	Divide with remainders				Recognise the place value of each digit in		
10).Efficient division			•	numbers with up to 2 decimal places, and		
11	Solve problems with multiplication and division				compose and decompose numbers with up to 2		
					decimal places using standard and non-standard		
					partitioning.		
					Reason about the location of any number with up		
					to 2 decimals places in the linear number system,		
					including identifying the previous and next		
					multiple of 1 and 0.1 and rounding to the nearest		
					of each.		
				•	Recall decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and		
					1/10 and for multiples of these proper fractions.		
				1.	Decimals up to 2 decimal places		
				2.	Equivalent fractions and decimals (tenths)		
				3.	Equivalent fractions and decimals (hundredths)		
				4.	Equivalent fractions and decimals		
				5.	Thousandths as fractions		
				6.	Thousandths as decimals		

Measurement: Perimeter and Area

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes.

Compare areas and calculate the area of rectangles (including squares) using standard units.

Perimeter of rectangles

- Perimeter of rectilinear shapes
- Perimeter of polygons
- Area of rectangles
- Area of compound shapes
- Estimate area



 8. Lengths and angles in shapes 9. Regular and irregular polygons 10. 3-D shapes Mult under num hunc 1. Use I within 2. Com 3. Add 4. Add 			·			
Statistics Correct and compare and the presentages Compare and compare and the presentages Compare and presentages						
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Statistics Geometry: Shape Serventages as fractions 12. Understand percentages 13. Fercentages as fractions • Solve comparison, sum and difference problems using information presented in a line graph. • Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. • Identify, describe and represent the position of a stage following are flexiton or translation, using the appropriate language, and know that the stage has not changed. • Read and interpret information in tables, including timetables. • Identify angles, and measure them in degrees angles. • Identify angles at a point and 1 whole turn (total and user present the position of a stage has not changed. • Read and plot coordinates • Read and plot coordinates • Read and plot coordinates • Read and interpret time graphs • Use the properties of rectangles to deduce angles. • Identify angles at and find missing lengths and angles. • Translation with coordinates • Must 1. Read and interpret time graphs • Identify angles, stimate and measure angles in degrees (1) and draw angles of a given size. • Identify angles stimate and measure angles in degrees. • Identify angles and angles accurately • Know 2. Read and interpret timetables • Identify angles acturately • Calculate angles on a straight line • Read and interpret timetables • Know 3. Read and interpret timetables • Identify angles accurately • Identify angles accurately • Read and measure angles accurate				10. Round to the nearest whole number		
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Statistics Geometry: Shape Geometry: Position and Direction Is. Equivalent fractions, decimals and percentages • Solve comparison, sum and difference problems using information presented in a line graph. • Know angles are measured in degrees: estimate • Identify, describe and represent the position of a shape following a reflection or translation, using hor multipation presented in units of 1 with 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. • Identify angles at a point and 1 whole turn (total scales/number lines marked in units of 1 with 2, 360°) • Uses the properties of rectangles to deduce related facts and find missing lengths and angles. • Identify angles at a point and 1 whole turn (total scales/number present the position of a single scale and interpret time praphs • Identify angles at a point and 1 whole turn (total scales/number) • Uses the properties of rectangles to deduce related facts and find missing lengths and angles. • Identify angles at a point and a work and the regular and interpret time scales/number interpret time regular and intergret angles. • Identify angles and angles. • Read and interpret time scales/number interpret informates • Read and interepret tinformates • Read and interpret				12. Understand percentages		
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Number: Decimals

cognise and use thousandths and relate them tenths, hundredths and decimal equivalents. we problems involving number up to 3 decimal aces.

ad, write, order and compare numbers with up 3 decimal places.

ultiply and divide whole numbers and those volving decimals by 10, 100 and 1,000.

ow that 10 tenths are equivalent to 1 one, and at 1 is 10 times the size of 0.1.

ow that 100 hundredths are equivalent to 1 e, and that 1 is 100 times the size of 0.01. ow that 10 hundredths are equivalent to 1

ow that io hundreaths are equivalent to i oth, and that 0.1 is 10 times the size of 0.01. cognise the place value of each digit in

mbers with up to 2 decimal places, and

mpose and decompose numbers with up to 2 cimal places using standard and non-standard rtitioning.

ason about the location of any number with up 2 decimals places in the linear number system, luding identifying the previous and next litiple of 1 and 0.1 and rounding to the nearest each.

Itiply and divide numbers by 10 and 100; derstand this as equivalent to making a mber 10 or 100 times the size, or 1 tenth or 1 ndredth times the size.

e known facts to add and subtract decimals hin 1

mplements to 1

d and subtract decimals across 1

d decimals with the same number of decimal ices



			5. S d 6. A p 7. S d 8. E d 9. D 10. N 11. D 12. N
Number: Negative Numbers	Measurement: Converting Units	Measurement: Volume	
 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. Understand negative numbers Count through zero in 1s Count through zero in multiples Compare and order negative numbers Find the difference 	 Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]. Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time. Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. Convert between units of measure, including using common decimals and fractions. Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size. Kilograms and kilometres Millimetres and millilitres Convert units of length Convert units of time Calculate with timetables 	 Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity Estimate volume and capacity [for example, using water]. Cubic centimetres Compare volume Estimate volume Estimate capacity 	

Subtract decimals with the same number of decimal places Add decimals with different numbers of decimal places Subtract decimals with different numbers of decimal places Efficient strategies for adding and subtracting decimals Decimal sequences Multiply by 10, 100 and 1,000

Divide by 10, 100 and 1,000

Multiply and divide decimals – missing values