Maths Curriculum Content

Year 1 and 2

Term 1	Place Value	Place Value	Place Value	Place Value	Addition and subtraction	Addition and subtraction	Addition and subtraction	Measures Length and Height
Y1	Counting up to 50 / 100 forwards, backwards in steps of 1 , 5 and 10 and within measures Recognising coins	Value of digits and number representations Partitioning into tens and ones Coins making amounts	Comparing and ordering numbers and measures including use of number lines and other images	1 more and 1 less 1 more and 1 less within money and measure as well as number	Use of symbols bonds to 5 bonds within 5 for measure 1 more and1 less in measure	Addition bonds for and within 10 bonds to solve problems with money and measure	Subtraction facts within 10 including money	Non-standard units Comparing lengths practically Addition and subtraction problems Counting revisited through scales
Y2	Counting up to 100 Counting from different starting points Counting in 1s,2s,5s and 10s forwards and backwards Recognising coins	Value of digits and number representations Partitioning into multiples of tens and ones Coins making amounts – same amount different coins	Number lines and scales for representing numbers and comparing them with images	comparing and ordering numbers, money and measures 10 more 10 less	Mental strategies for bonds for bonds for 20 and within 20 Include measures	Adding multiples of 10 and adding two digit and two digit , crossing boundaries with single digit Solving problems with money	Subtracting multiples of 10 and subtracting two digit and two digit exchanging with single digit crossing boundaries	Practical problems – use of 10cm rods and rulers Addition and subtraction Problems Counting revisited through length

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							Solving problems with money	

Term 2	Place Value	Multiplication and division	Fractions / division - halves and quarters	Fractions	Geometry 2D	Addition and subtraction	Time	Assess and Review
Y1	Counting in 2s, 5s and 10s forwards and backwards in range of contexts Count in money 2p,5p,10p	Doubling to 10 Solve multiplication problems with 2x and division by 2	Exploring ½ in range of contexts and equal parts Link ½ to divide by 2 ½ turns ¼ turns	Finding ½ by sharing sets of objects Find ½ of shapes	Recognise and name 2D shapes	Addition and Subtraction facts for 10 and within 20	O'clock Days of week Months of year 1 more/1 less than Ordering events	Assess and Review T1 and T2
Y2	Counting in 2s, 5s and 10s Sequences and patterns 10 more/10 less 2 more/2 less 5 more/5 less Counting outside of 12 times a number..	Number families 2 x table and commutativity 5 x table and commutativity Multiplication and division 10 x table and commutativity	Revisit ½ , ¼ and introduce 2/4 and ¾ Finding equal parts ½ , ¼, 2/4, ¾ turns	Finding ½, 1/4, 2/4 and ¾ of shapes and numbers	Geometry 2D shapes Recognise, name and properties of 2D shapes ½ and ¼ and ¾ turns	Addition and Subtraction facts for 10 and within 20 recall 2 digit addition and subtraction within 50 -100 and problem solving	Revise days of week, months of year, O'clock and half past – 1 hour more/1 hour less Use clocks – ¼ turns linked to quarter past	Assess and Review T1 and T2

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							Use ½ turns linked to half past Use ¾ turns linked to quarter to Count around clock face in 5s	

Term 3	Place Value	Addition and subtraction	Addition and subtraction	Measures	Geometry 3D shape	Time
Y1	Counting to and across 100 1 more and 1 less up to and across 100	Mental strategies for bonds and applying to measure Adding and subtracting 1 digit and 2 digit numbers	Mental strategies for bonds and applying to measure Adding and subtracting 1 digit and 2 digit numbers	Capacity and volume Reading scales and practical problems	Recognise and name 3D shapes Recognise 2D shapes on 3D shapes Include positional language	Compare time problems Begin to measure time Language of o'clock
Y2	Through problem solving Comparing measures up to numbers of 100 Counting in 3s	Addition and subtraction Adding two digit and two digit cross boundaries Including money	Subtracting two digit and two digit cross boundaries Including money Addition and subtraction through statistics	Capacity and volume – reading scales and practical problems Scales in 1s, 10s, 5s, 100s	Recognise, name and properties of 3D shapes Extend to do comparison of 2D and 3D shapes Include position language	¼ to, ¼ past, 5 minutes Word problems for time Time facts Timetables – simple

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Term 4	Multiplication and division	Multiplication and division	Fractions	Fractions	Measure – Mass and weight	Review and Assess
Y1	Count in 5s One step problems with 5s Count in 10s One step problems with 10s Tally charts and money	Sharing/grouping in 10s One step problems with 10s	Exploring ¼ in a range of context and equal parts	¼ and ½ of shapes and numbers	Practical problems of mass and weight Reading scales Addition and subtraction problems	Review and assess terms 3 and 4 check against ARE
Y2	Revisit commutativity Including money using 2p, 5p and 10p Word problems Multi step problems Statistics - tally charts, bar charts and pictograms	Multiplication and division Problems with 10s Statistics - tally charts, bar charts and pictograms Extend to outside 12 x 2, 5 and 10	Fractions Counting in 3s Equal parts 1/3 of shapes 1/3 of quantities 1/3 of numbers	Finding 1/3 in context Fractions word problems Linked to ½, 1/3, 1/4, 2 /4, 3/4	Practical problems of mass and weight Reading scales Addition and subtraction problems Multiplication and division problems	Review and assess terms 3 and 4 check against ARE

Term 5	Addition and subtraction Including measures and statistics	Addition and subtraction Including measures and statistics	Multiplication and division 2 weeks Including measures and statistics	Multiplication and division 2 weeks Including measures and statistics	Fractions and time	Review and Assess
Y1	Mental and written addition/subtraction	One step problems Empty boxes	One step word problems for 2, 5 and 10 times tables	One step word problems for 2, 5 and 10 times tables	Revise fractions and time	

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	including problem solving		Money one step problems Measures one step problems	Money one step problems Measures one step problems		
Y2	Mental and written addition/subtraction including problem solving	One step and two step problems Empty boxes Comparison problems	One and two step problems Money, measures one and two step problems	One and two step problems Money, measures one and two step problems	SATS	

Term 6	**Place Value**	**Calculation & Measures**	**Calculation & Measures**	**Fractions**	**Geometry**	**Transition x 3 weeks**
Y1	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions	Problem solving geometry	Y1 non negotiables for Y2 – skill and application
Y2	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions	Problem solving geometry	Y2 non negotiables for Y3 - skill and application

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Year 3 and 4

Term 1	Place Value	Place Value	Place Value	Mental Addition and Subtraction	Addition and subtraction	Addition and subtraction	Mental Multiplication and division	Mental multiplication and division
Y3	revise 2 digit numbers through range of contexts recognise the place value of each digit in a three-digit number (hundreds, tens, ones) identify, represent and estimate numbers using different representations include money and measure up to 1000 read and write numbers up to 1000 in	compare and order numbers up to 1000 compare; lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) up to 1000 compare money up to 1000 compare durations of events [for example to calculate the time taken by particular events or tasks].	find 10 or 100 more or less than a given number find 10 more / less in money, measures, on graphs find 100 more / less in money, measures and graphs find 50 more and 50 less in contexts count in multiples of 10s and 100s including money count in 50s and 100s including	find 10 or 100 more or less than a given number find multiples of 10s and 100s more / less than a given 2 and 3 digit number add and subtract numbers mentally, including; a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction estimate the answer to a calculation and use inverse operations to check answers	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction estimate the answer to a calculation and use inverse operations to check answers add and subtract; lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	revise counting in 2s, 3s, 5s and 10s from any number forwards and backwards count forwards and backwards in 20s, 200s, 50s, 500s, 100s, 100s count from 0 in patterns and sequences recall 2, 3, 5, 10 x tables and division facts use known facts to solve problems outside of 12 x 2, 12 x 5, 12 x 10,	count in multiples of 4 and 8 count in multiples of 40s, 80s, 400s, 800s recall and use multiplication and division facts for the 4 and 8 , and multiplication use known facts of 2x solve problems for 4 and 8 commutativity and tests of divisibility for use known facts to solve problems

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	numerals and in words		money and measure			add and subtract amounts of money to give change, using both £ and p in practical contexts	Link ÷ 10 to 10ths, ÷ 2 to halves and ÷ 5 to 5ths 3 times table facts Counting in 3,30,300 etc	outside of 12 x 4, 12 x 8
Y4	revise 3 digit numbers through contexts recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) identify, represent and estimate numbers using different representations	order and compare numbers beyond 1000 estimate, compare different measures, including money in pounds and pence round any number to the nearest 10, 100 or 1000 rounding within measure as above	find 1000 more or less than a given number find multiples of 100 more or less than a given number find 1000 more/less range of measures find 25 more / less than any given number and in contexts	find 1000 more or less than a given number add and subtract numbers mentally, including: a four-digit number and ones ; a four-digit number and tens; a four-digit number and hundreds; a four- digit number and thousands	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation calculate different measures,	revise counting in 2s, 3s, 4s, 5s, 6s, 8s, 9s and 10s from any number forwards and backwards count forwards and backwards in multiples of these e.g 30s, 300s etc patterns and sequences recall 2, 3, 4, 5, 6, 8, 9, 10x tables and division facts use known facts to solve	count in multiples of 7, 11 count in multiples of 70s, 90s, 700s, 900s Link x 7 to days of week use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying

						including money in pounds and pence	problems outside of 12 x 4, 12 x 9, 12 x 6	together three numbers recognise and use factor pairs and commutativity in mental calculations

Term 2	X and division	Geometry	Fractions	Fractions	Time	4 rules through Statistics	Assess and Review
Y3	count forwards and backwards in 3s, 30s and 300s Count in multiples of 6 and 9 Count in multiples of 60s, 90s, 600s, 900s recall and use multiplication and division facts for the 3, 6 and 9 and multiplication tables use known facts of 3x to solve	recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 compare and order unit fractions, and fractions with the same denominators	add and subtract fractions with the same denominator within one whole recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Fraction families such as ¼ + 2/4 = ¾ so ¾- ½ = 2/4	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight	interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts	Gaps analysis for term 2 and review

	problems for 6 and 9 Commutativity and tests of divisibility for3, 6 and 9 Use known facts to solve problems outside of 12 x 6, 12 x 9 use known facts of 3 x, 6, 9 times tables Link x 60 to time	than or less than a right angle - link to translation identify right angles in triangles and quadrilaterals, irregular polygons recognise polygons in different orientations identify horizontal and vertical lines and pairs of perpendicular and parallel lines	introduce simple equivalences ½, 1/3, 1/4, 1/5	Problem solving around listing all possibilities	know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events (for example to calculate the time taken by particular events or tasks).	and pictograms and tables.	
Y4	revise multiplying 3 single digit numbers multiply 1 digit by 2 digit numbers (range of methods moving to formal method) multiplication of 1 x 2 digit in context of money, other measures.	identify acute and obtuse angles and compare and order angles up to two right angles by size identify angles within triangles and quadrilaterals describe movements between positions	count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. compare and order unit and	add and subtract fractions with the same denominator Add and subtract equivalent fractions e.g. 2/4 + ½ = Fraction families such as ¼ + 2/4 = ¾ so ¾- ½ = 2/4	read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Gaps analysis for term 2 and review

	Rules of commutativity of 1 x 2 digit numbers Estimation and checking of answers Empty box problems ? x 24 = 48	as translations of a given unit to the left/right and up/down	fractions within context and without Revise y3 equivalent fractions see above	All possibilities if my answer is 4/5 what could my calculations be	months; weeks to days.		

Term 3	Place Value	Addition and Subtraction through Perimeter and length	Multiplication through area	Division	Division	Fractions
Y3	introduce negative numbers through context Roman numerals on clock faces rounding numbers to 10	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction estimate the answer to a calculation and use inverse operations to check answers	use of arrays to make different shapes same area within tables known simple rectangles using tables known and calculate missing sides check by counting squares investigate areas v perimeter link to factors	division facts division of a 2 digit number by 1 digit with a remainder using 2,5 x tables division of a 2 digit number by 1 digit with a remainder using 3,4,6,8 x tables estimation and checkin	estimate and use inverse operations to check answers to a calculation problem solving with mixed measures for division problems	recognise and show, using diagrams, equivalent fractions with small denominators problem solve with equivalent fractions recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions

		measure the perimeter of simple 2-D shapes calculate missing sides for perimeter perimeter with mixed measures cm / mm, cm / m				with small denominators
Y4	count backwards through zero to include negative numbers round any number to the nearest 10, 100 or 1000 round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places read Roman numerals to 100 (I to C) and know that over time, the numeral system	convert between different units of measure (for example, kilometre to metre; hour to minute) measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	find the area of rectilinear shapes by counting squares introduce area with arrays introduce simple formula for rectangles for area. investigate area v perimeter link to factor pairs Scaling up and down problems 2 digit x 1 digit and introduce 1 x 3 digit using arrays	revise use of known facts for division revise 2 digit ÷ 1 introduce short division 3 digit by 1 digit without remainder use of factor pairs for checking estimation	estimate and use inverse operations to check answers to a calculation problem solving with mixed measures for division problems	recognise and show, using diagrams, families of common equivalent fractions recognise and write decimal equivalents of any number of tenths or hundredth recognise and write decimal equivalents to ½, 1/4, 3/4

	changed to include the concept of zero and place value.	estimate and use inverse operations to check answers to a calculation				

Term 4	Geometry	Geometry	Fractions and decimals	Fractions and Decimals	Multiplication	Assess and Review
Y3	draw 2-D shapes and revise properties of 2-D Shapes including angles and lines of symmetry	recognise 3-D shapes in different orientations and describe them make 3-d shapes with nets problem solving with 2-D and 3-D shapes	revise equivalent fractions in context of measures revise adding /subtracting through problems such as ½ of 50 + ¼ of 60 = revise adding equivalent fractions ½ + 2/4 = Comparison problems would you rather have ½ of 60 or 3/6 of 50 in and out of context recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions	find fractions of money, measures compare fractions of measures fraction word problems for money /measures use a mix of unit and equivalent fractions include fractions of shapes fractions of areas of shapes recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	times tables facts and division facts commutativity word problems using times tables facts and division facts including money and measure empty box problems Scaling up and down	Gaps analysis and review

			with small denominators			
Y4	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes revise angles identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry.	describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon.	revise equivalent fractions in context of measures revise adding and subtracting through problems such as 5/6 of 60 + 2/8 of 56 = problem solve comparing problems would you rather have 3/8 of 80 or 2/5 of 50	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number include fractions of shapes, fractions linked to measures solve simple measure problems involving fractions and decimals to two decimal places.	introduce 1 x 3 digit multiplication problem solving with 1 x 2 digit and 1 x 3 digit checking answers by division	Gaps analysis and review

Term 5	Statistics	Time	Addition and Subtraction	Multiplication and Division	Mass/Volume and Capacity
Y3	interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions (for	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	write and calculate mathematical statements for multiplication and division using the multiplication tables that	read a range of scales link to times tables, 100 more / less, 1000 more / less etc conversion of measures

	example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.	hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time taken by particular events or tasks].	estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	compare and order mass , volume and capacity problem solve with mass and volume – practical as well as written problems round to nearest 10
Y 4	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations	recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using formal written layout	convert between different units of measure [for example, kilometre to metre; hour to minute] read scales – link to place value read decimal scales estimate, compare and calculate different measures through problems round mass and volume solve simple measure problems involving

			and methods to use and why		fractions and decimals to two decimal places

T6	Place Value	Calculation & Measures	Calculation & Measures	Fractions	Geometry	Transition x 3 weeks
Y3	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions	Problem solving geometry	Y3 non negotiables for Y4 – skill and application
Y4	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions	Problem solving geometry	Y4 non negotiables for Y5 , skill and application

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Year 5 and 6

Term 1	Place Value Counting Read, write and compare	Place Value Decimals	Mental addition and subtraction	Addition and subtraction (integers/ decimals for MA)	Number properties	Mental Multiplication and division link to volume	Multiplication and division
Y5	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 multiply and divide whole numbers by 10, 100 and 1000 Link with convert between different units of metric measure (for example, kilometre and	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents read, write, order and compare numbers with up to three decimal places multiply and divide decimals by 10, 100 and 1000 Link with convert between different units of metric measure (for example, kilometre and metre; centimetre	add and subtract numbers mentally with increasingly large numbers use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction problems mentally	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction multi-step problems in contexts, deciding which operations	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	revise multiply 3 single digit numbers identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers multiply and divide numbers mentally drawing upon known facts solve problems involving multiplication and division including using their knowledge of factors and	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers solve problems involving multiplication including using their knowledge of factors and multiples, squares and cubes

	metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		and methods to use and why. Include decimal addition and subtraction and measures problems		multiples, squares and cubes Link Cube numbers to volume	
Y6	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places	revise ordering of decimals identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal	perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to carry out calculations involving the four operations	solve addition and subtraction multi-step problems in contexts, deciding whichoperations and methods to use and why solve problems involving addition, subtraction, use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy decimal addition/subtracti	Revise squares, cubes identify common factors, common multiples and prime numbers problem solve with above	Revise Y5 perform mental calculations, including with mixed operations and large numbers calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]. recognise when it is possible to use	multiply one-digit numbers with up to two decimal places by whole numbers use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

	solve number and practical problems that involve all of the above.	places where appropriate use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places		on 1 and 2 decimal places		formulae for volume of shapes	

Term 2	Multiplication (Area)	Geometry Angles	Geometry Properties of 2-D Shapes Include perimeter	Addition and subtraction through Statistics	Fractions	Fractions	Assess and Review
Y5	calculate and compare the area of rectangles (including squares), and including using	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	distinguish between regular and irregular polygons based on reasoning about	solve comparison, sum and difference problems using information	compare and order fractions whose denominators are all multiples of the same number	add and subtract fractions with the same denominator and denominators that	Review and consolidate term 1 and 2 check against ARE

	standard units, square centimetres (cm2) and square metres (m2) areas of rectangles mixed units cm/mm etc use the properties of rectangles to deduce related facts and find missing lengths	draw given angles, and measure them in degrees (o) identify: angles at a point and one whole turn (total 360o) ,angles at a point on a straight line and a turn (total 180o),other multiples of 90o	equal sides and angles use the properties of rectangles to deduce related facts and find missing lengths and angles measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	presented in a line graph	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths read and write decimal numbers as fractions recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number	are multiples of the same number	
Y6	recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles,	interpret pie charts and line graphs and use these to solve problems construct line graphs and use	compare and order fractions, including fractions > 1 use common factors to simplify fractions; use common multiples	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Review and consolidate term 1 and 2 Check against ARE

	formulae for area of shapes Area of rectangles with mixed measures Area of rectangles with missing sides Area of rectangles	draw 2-D shapes using given dimensions and angles	quadrilaterals, and regular polygons recognise that shapes with the same areas can have different perimeters and vice versa	these to solve problems	to express fractions in the same denomination associate a fraction with division and calculate decimal fraction equivalents recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5 revision)	

Term 3	**Place Value Negative Numbers Roman Numerals Rounding**	**Addition and subtraction Decimals and measures**	**Multiplication and Division**	**Multiplication and Division Problem Solving and decimals**	**Geometry 3-D and Coordinates**	**Fractions, decimals and %**
Y5	round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	use all four operations to solve problems involving measure (for example, length, mass, volume, mone)]	divide numbers up to 4 digits by a one-digit number using the formal written method of short	use all four operations to solve problems involving measure (for example, length, mass, volume,	identify 3-D shapes, including cubes and other cuboids, from 2-D representations identify,	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per

	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero solve number problems and practical problems that involve all of the above read and round decimals with two decimal places to the nearest whole number and to one decimal place	using decimal notation, including scaling. convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	division and interpret remainders appropriately for the context	money) using decimal notation, including scaling. convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of ½, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25

Y6	round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above.	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal	divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	multiply one-digit numbers with up to two decimal places by whole numbers use written division methods in cases where the answer has up to two decimal places calculate mean as an average (link to division) solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	recognise, describe and build simple 3-D shapes, including making nets describe positions on the full coordinate grid (all four quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes	revise finding % solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison

		notation to up to three decimal places use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy				

Term 4	Fractions, decimals, %	Fractions consolidation Y5 Ratio and proportion Y6	Missing information Y5 Algebra Y6 Roman Numerals	Time and Measures – 4 rules	Area and perimeter Revisit Properties	Review and Assess
Y5	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Revisit and consolidate fractions through problem solving	find missing lengths and angles revision problems linked to area and perimeter empty boxes in calculations Roman Numerals	complete, read and interpret information in tables, including timetables. solve problems involving converting between units of time revise 12 hour and 24 hour time revise time conversion and facts	Problem solving with shapes Revisit missing angles and lengths	Review and assess terms 3 and 4 check against ARE

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Y6	multiply simple pairs of proper fractions, writing the answer in its simplest form revise divide proper fractions by whole numbers	solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. include fractions linked to pie charts	express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns missing numbers, equivalent expressions (for example, a + b = b + a) Roman numerals to 1000 (M) and recognise years written in Roman numerals.	multi step measures problems links to 4 rules , including conversion of measures time problems revise 12 hour and 24 hour time revise time conversion and facts	Area of triangles and Parallelograms Revisit area of rectangles illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	Review and assess terms 3 and 4 check against ARE

Term 6	Place Value	Calculation & Measures	Calculation & Measures	Fractions, decimals and %	Geometry	Statistics	Transition x 2 weeks
Y5	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions, decimals and %	Problem solving geometry	Problem solving statistics	Y5 non negotiables for Y6 – skill and application

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Y6	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions, decimals and %	Problem solving geometry	Problem solving statistics	Y6 non negotiables for Y7 , skill and application