	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6			
				Count						
	Counting in a stable order up to 5 and 10 Recognising 1 more and 1 less than a number up to 10, including odd and even number Have a deep understanding of number up to 10	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of twos, fives and tens	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	Count in multiples of 6, 7, 9, 25 and 1000 Count backwards through zero to include negative numbers Note – In the WRM schemes, negative numbers are introduced in Year 5	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Count forwards and backwards with positive and negative whole numbers, including through zero				
ľ				Represent						
Place value	Read and write numbers up to 5 in words Verbally count beyond 20 and recognise the pattern of the counting system Represent numbers using objects and pictures	Identify and represent numbers using objects and pictorial representations Read and write numbers to 100 in numerals Read and write numbers from 1 to 20 in numerals and words	Read and write numbers to at least 100 in numerals and in words Identify, represent and estimate numbers using different representations, including the number line	Identify, represent and estimate numbers using different representations Read and write numbers up to 1000 in numerals and in words	Identify, represent and estimate numbers using different representations Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value	Read, write, (order and compare) numbers to at least 1 000 000 and determine the value of each digit Read Roman numerals to 1000 (M) and recognise years written in Roman numerals	Read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit			
	Use and compare									
Ē	Show more than/less than using objects, pictures and number line Using language of equal to, more than, less than up to 10	Given a number, identify one more and one less	Recognise the place value of each digit in a two-digit number (tens, ones) Compare and order numbers from 0 up to 00; use <, > and = signs	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Compare and order numbers up to 1000	Find 1000 more or less than a given number Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	(Read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit	(Read, write), order and compare numbers up to 10 000 000 and determine the value of each digit			
					Order and compare					
-			Proble	ems and rounding	numbers beyond 1000					
			Use place value and number facts to solve problems	Solve number problems and practical problems involving	Round any number to the nearest 10, 100 or 1000	Interpret negative numbers in context	Round any whole number to a required degree of accuracy			
				these ideas	Solve number and practical problems that involve all of the	Round any number up to 1 000 000 to the	Use negative numbers in context, and			

					above and with	nearest 10, 100, 1000,	calculate intervals
					increasingly large positive numbers	10 000 and 100 000	across zero
						Solve number	Solve number and
						problems and practical problems that involve	practical problems that involve all of the above
						all of the above	involve an of the above
			(Calculations			
	Calculate simple addition	Add and subtract one-digit and	Add and subtract	Add and subtract	Add and subtract	Add and subtract	Perform mental
	and subtraction questions up to 10. (0-5, 0-10)	two-digit numbers to 20, including zero	numbers using concrete objects, pictorial	numbers mentally, including:	numbers with up to 4 digits using the formal	whole numbers with more than 4 digits,	calculations, including with mixed operations
	up to 10. (0 5, 0 10)		representations, and	➤ a three-digit	written methods of	including using formal	and large numbers
	Show addition and		mentally, including:	number and	columnar addition and	written methods	
	subtraction calculations using objects		a two-digit number and	ones ≻ a three-digit	subtraction where appropriate	(columnar addition and subtraction)	Use their knowledge of the order of
			ones	number and	appropriate		operations to carry out
2	Use the + - and = sign		a two-digit	tens		Add and subtract	calculations involving
subtraction			number and tens two two-digit 	a three-digit number and		numbers mentally with increasingly large	the four operations
E E			numbers	hundreds		numbers	
a a			adding three one-digit	Add and subtract			
t,			numbers	numbers with up to			
<u> </u>				three digits, using			
ng				formal written methods of columnar			
				addition and			
and				subtraction			
a		Calue and stan problems that		Problems	Coluce addition and	Coluce addition and	Solve addition and
C		Solve one-step problems that involve addition and	Solve problems with addition and subtraction:	Solve problems, including missing	Solve addition and subtraction two- step	Solve addition and subtraction multi-step	Solve addition and subtraction multi-step
0		subtraction, using concrete		number problems,	problems in contexts,	problems in contexts,	problems in contexts,
E		objects and pictorial	using concrete	using number facts,	deciding which	deciding which	deciding which
q		representations, and missing number problems such as 7 = c	objects and pictorial	place value, and more complex addition and	operations and methods to use and	operations and methods to use and	operations and methods to use and
Addition		-9	representations,	subtraction	why	why	why
4			including those			Solve problems	
			involving numbers,			involving addition,	
			quantities and			subtraction,	
			measures			multiplication and division and a	
			 applying their increasing 			combination of these,	
			knowledge of			including	
						understanding the meaning of the equals	
						sign	

		montal and				
		mental and written methods				
		written methods				
			Recall/ Use			
	Equal sharing (halving) of	Recall and use	Recall and use	Recall multiplication	Identify multiples and	Identify common
Multiplication and division	Equal sharing (halving) of numbers up to 10 using objects Doubling of numbers up to 10 using objects	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Recall multiplication and division facts for multiplication tables up to 12 × 12 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 Recognise and use factor pairs and commutativity in mental calculations	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers 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	Identify common factors, common multiples and prime numbers Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
tion					cube numbers, and the notation for squared (²) and cubed (³)	
at			Calculations			
Multiplica		Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one- digit numbers, using mental and progressing to formal written methods	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	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 Multiply and divide numbers mentally drawing upon known facts Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication 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

	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects,	Solve problems involving multiplication and division, using materials, arrays, repeated addition,	Problems Solve problems, including missing number problems, involving multiplication	Solve problems involving multiplying and adding, including using the distributive	interpret remainders appropriately for the context Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Solve problems involving multiplication and division including using their knowledge	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 Perform mental calculations, including with mixed operations and large numbers Solve problems involving addition, subtraction, multiplication and
	pictorial representations and arrays with the support of the teacher	mental methods, and multiplication and division facts, including problems in contexts	and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	of factors and multiples, squares and cubes Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	division
-			Combined			
					Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	Use their knowledge of the order of operations to carry out calculations involving the four operations
ш – с		Fractions:	Recognise and write			

Recognise, find a as one of two eq object, shape or Recognise, find a quarter as one of parts of an objec quantity	ual parts of an quantitywrite fractions, a third, a quarter, two quarters and three quarters of a length shape, set of objects or quantity	tenths; recognise that tenths arise from	Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number	
	Fra	actions: Compare	·		
	Recognise the equivalenc of two quarters and a hal	 using diagrams, equivalent fractions with small denominators Compare and order unit fractions, and 	Recognise and show, using diagrams, families of common equivalent fractions	Compare and order fractions whose denominators are all multiples of the same number	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including
		fractions with the same			fractions > 1
	Erac	denominators tions: Calculations	I		
	Write simple fractions for example, half of six equal three.		denominator	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
				Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Multiply simple pairs of proper fractions, writing the answer in its simplest form

					Divide proper fractions
					by whole numbers
	Fractic	ons: Solve problems			
	Tractic				
		Solve problems that involve all of the above	Solve problems involving increasingly		
			harder fractions to		
			calculate quantities,		
			and fractions to divide		
			quantities, including		
			non-unit fractions		
			where the answer is a		
	Desime	la Dacamica unite and	whole number		
	Decima	als: Recognise, write and o	Jonipare		
			Recognise and write	Read and write	Identify the value of
			decimal equivalents of	decimal numbers as	each digit in numbers
			any number of tenths	fractions [for example,	given to three decima
			or hundredths	0.71 = 71/100]	places
			Recognise and write	Recognise and use	
			decimal equivalents to	thousandths and relate	
			a quarter, a half and	them to tenths,	
			three quarters	hundredths and	
				decimal equivalents	
			Round decimals with		
			one decimal place to	Round decimals with	
			the nearest whole number	two decimal places to the nearest whole	
			number	number and to one	
			Compare numbers with	decimal place	
			the same number of	·	
			decimal places up to	Read, write, order and	
			two decimal places	compare numbers with	
				up to three decimal	
				places	
	Fractions	, decimals and percentag	es		
			Solve simple measure	Recognise the per cent	Associate a fraction
			and money problems	symbol (%) and	with division and
			involving fractions and	understand that per	calculate decimal
				cent relates to 'number	
				of parts per hundred',	[for example, 0.375]

Explore measure of weight and length. (Heavier, lighter, longer, shorter) Compare, describe and solve practical problems for: Choose and use appropriate standard units to estimate and measure lengths (m/cm/mm); mass/weight Measure, compare, add and subtract: lengths (m/cm/mm); mass/weight Convert between different units of measure (for example, kilometre to metre; hour to minute) Convert between different units of measure (for example, kilometre to metre; hour to minute) Convert between different units of measure (for example, kilometre to metre; hour to minute) Solve problems involving the calculation and conversion of units of measure, using decimal notation up to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and vessels Solve problems involving the calculation and conversion of units of measure (for example, length, mass, volume/capacity (l/ml) Solve problems involving the calculation and conversion of units of measure (for example, length, mass, volume/capacity (l/ml) Solve problems involving the calculation and conversion of units of measure (for example, length, mass, volume/capacity (l/ml) > lengths and heights > imme Solve problems involving the calculation up to solve problems involving measure (for example, length, mass, volume/capacity and results using >, capacity and volume/capacity and second to results using >, cand = Compare and order lengths, mass, volume/capacity and results using >, cand = Solve problems involving measure (for example, length, mass, volume/capacity and results using >, cand = Compare and order lengths, mass, volume/capacity and results using >, cand =						decimals to two decimal places	and write percentages as a fraction with denominator 100, and as a decimal Solve problems which require knowing percentage and decimal equivalents of one half, one quarter, one fifth, two fifths and four fifths and those fractions with a denominator of a multiple of 10 or 25	for a simple fraction [for example, three eighths] Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Money Miles and kilometres	Measure	weight and length. (Heavier, lighter, longer, shorter) Discuss capacity, identifying if things are full, half full, empty, nearly empty, half empty	 practical problems for: lengths and heights mass/weight capacity and volume time Measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, 	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >,	add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	different units of measure [for example, kilometre to metre; hour to minute] Estimate, compare and calculate different	different units of metric measure Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation,	involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. 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 3 d.p.

	Recognise and know the value of different denominations of coins and notes	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Estimate, compare and calculate different measures, including money in pounds and pence	Use all four operations to solve problems involving measure [for example, money]	
		chunge	Time			
Tell the time to the hour Identify and explore ways of measuring time I can say the days of the week To use everyday language related to time	Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	Compare and sequence intervals of time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12- hour and 24-hour clocks 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 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	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	Solve problems involving converting between units of time	Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa Note – In the WRM schemes, time conversions are covered in Y5; the Y6 block concentrates on metric units.

				taken by particular			
			Denim	events or tasks]			
			Perime	eter, area, volume			
				Measure the perimeter of simple 2-D shapes	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the area of rectilinear shapes by counting squares	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes Estimate volume [for example, using blocks	Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Calculate, estimate and compare volume of cubes and cuboids
						to build cuboids] and capacity [for example, using water]	using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units
				2D shapes			units
Geometry	To recognise and name 2- d shapes with four sides	Recognise and name common 2- D shapes [for example, rectangles (including squares), circles and triangles]	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Compare and sort common 2-D shapes and everyday objects	Draw 2-D shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Use the properties of rectangles to deduce related facts and find missing lengths and angles	Draw 2-D shapes using given dimensions and angles Compare and classify geometric shapes based on their properties and sizes Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

			3D shapes			
3- D cub	ognise and name common) shapes [for example, ioids (including cubes), amids and spheres]	Recognise and name common 3- D shapes [for example, cuboids (including cubes), pyramids and spheres] Compare and sort common 3-D shapes and everyday objects	Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them		Identify 3-D shapes, including cubes and other cuboids, from 2- D representations	Recognise, describe and build simple 3-D shapes, including making nets
			Angles and lines			
			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 than or less than a right angle Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	Identify acute and obtuse angles and compare and order angles up to two right angles by size 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	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees Identify:	Find unknown angles in any triangles, quadrilaterals, and regular polygons Recognise angles where they meet at a point, are on a straigh line, or are vertically opposite, and find missing angles
		Posi	tion and direction			
mov	scribe position, direction and vement, including whole, f, quarter and three-quarter ns	Order and arrange combinations of mathematical objects in patterns and sequences Use mathematical vocabulary to describe position, direction and movement, including		Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given	Identify, 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	Describe positions on the full coordinate gri (all four quadrants) Draw and translate simple shapes on the coordinate plane, and

		movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti- clockwise)		unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon		reflect them in the axes			
		Presei	nt and interpret data						
6		Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	Interpret and present data using bar charts, pictograms and tables	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	Complete, read and interpret information in tables, including timetables	Interpret and construct pie charts and line graphs and use these to solve problems			
istic	Solve statistical problems								
Statistics		Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and comparing categorical data	Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	Solve comparison, sum and difference problems using information presented in a line graph	Calculate and interpret the mean as an average			

Algebra	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = c – 9	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	Solve problems, including missing number problems Note – although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3		Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two
					unknowns Enumerate possibilities of combinations of two variables
tion					Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
Ratio and Proportion					Solve problems involving the calculation/use of percentages for comparison
atio anc					Solve problems involving similar shapes where the scale factor is known or can be found
R					Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples