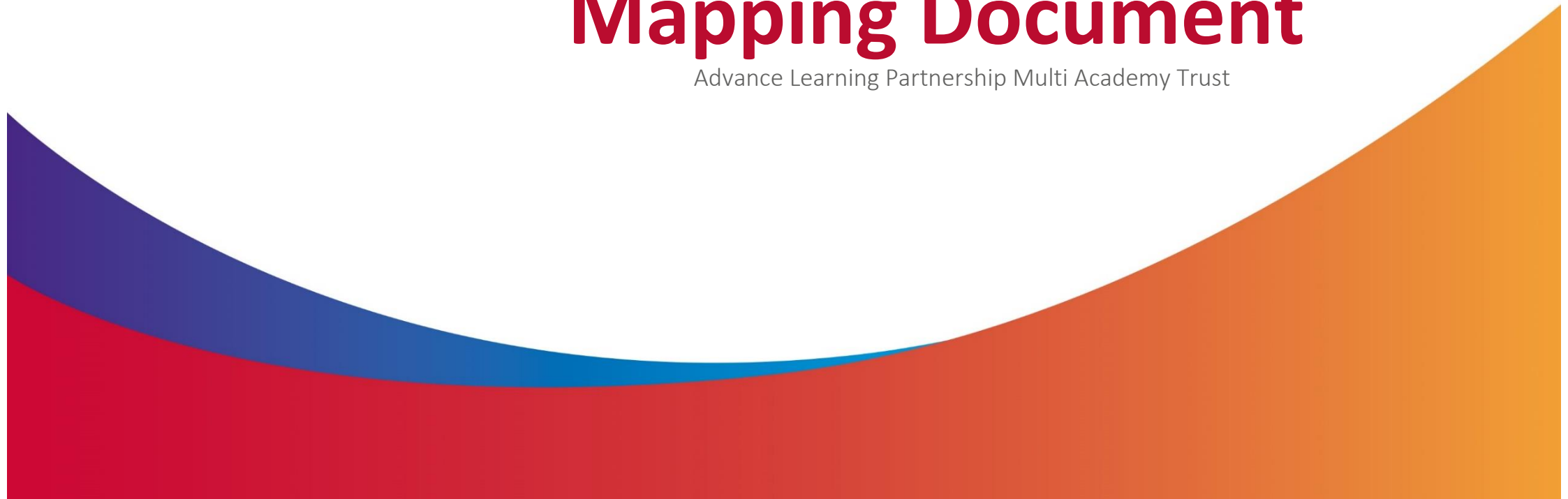


Mathematics Curriculum Mapping Document

Advance Learning Partnership Multi Academy Trust

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MATHEMATICS CURRICULUM OVERVIEW

“Maths is all about becoming a creative thinker not a calculator”

Intent

We want all children at Brandon Primary Academy to experience the beauty, power and enjoyment of mathematics and develop a sense of curiosity about the subject. Moreover, we hope to ensure that they develop enthusiasm for maths that will stay with them throughout their lives and empower them in future life. We want our children to enjoy learning maths because they BELIEVE in their own ability to achieve when they are challenged.

As a school, we promote the fact that ‘We can all do maths!’ We believe all children can achieve in mathematics and teach for secure and deep understanding of mathematical concepts through small steps. We believe that unlocking mathematical fluency is an essential life skill for all learners and is a pre-requisite to being able to reason and solve problems mathematically. In maths, the children ACHIEVE when they are confidently fluent in their understanding of number and in their calculation skills and are then able to apply these skills to problem-solving.

Our aim is to develop a positive culture of deep understanding, confidence and competence in maths that produces strong, secure learning. With this confidence, the children INSPIRE one another when they know how to reason and explain their thinking and methodology.

Children in Brandon Primary Academy SUCCEED as they develop mastery in maths, and they can access higher levels of understanding. However, we understand that mistakes and misconceptions are an essential part of learning as our children progress along their journey to becoming a mathematician and as a result our curriculum is both supportive and challenging.

How we teach Maths at Brandon Primary Academy

In each class, children begin the working day with a maths task. These tasks help the children with their general maths knowledge and fluency and may take many forms, for example: calculation, times tables or several questions relating to recent learning concepts.

To support teaching of maths in Nursery, Shonette Bason's maths curriculum is being used, having been amended so that children spend more time mastering the basics. In EYFS, Reception children are taught using the principles of Mastering Number, a scheme supported by the local Maths Hub. This programme is continued in additional sessions in Year 1 and Year 2 to support the children's understanding of number.

Every class from Year 1 to Year 6 follows the White Rose scheme of learning which is based on the National Curriculum. Lessons may be personalised to address the individual needs and requirements for a class, but coverage is maintained.

Children receive 5 lessons of maths per week following this scheme. It is common practise to begin each lesson with retrieval to enable children to revisit previously taught concepts before new learning is delivered. White Rose Flashback 4 is used daily for this purpose.

In accordance with the 5 Big Ideas of Mastery in Maths, we use the process of concrete, pictorial and abstract. We have a range of mathematical resources in school including Base10 and counters to allow children to deepen their understanding through manipulation of concrete equipment. When children have grasped a concept using concrete equipment, images and diagrams are used (pictorial representations) prior to moving to abstract questioning. Abstract maths relies on the children understanding a concept thoroughly and being able to use their knowledge and understanding to answer and solve maths without equipment or images.

In order to further develop the children's fluency, we have 5 short sessions concentrating on recall of maths facts and mental methods. During these sessions, we use Big Maths resources such as CLIC and Beat That to provide extra opportunities to practise Times Tables, number facts and calculation strategies. Children also complete arithmetic style activities weekly.

On occasion, we also utilise resources provided by the NCETM and NRICH to challenge the children in problem solving and reasoning.

Assessment

We mark pupil's work daily to inform teaching for the coming lessons and to ascertain the progress being made by each child. Summative assessments are completed at the end of each term using NFER assessment papers and the results of these are inputted to update iTrack (a progress and attainment

tracking system) and are shared with parents during parents' meetings. These results are analysed to identify gaps so that interventions can take place where necessary to ensure each child achieves in line with their ability.

Online Maths Tools

In order to advance children's maths skills in school and at home, we utilise Times Tables Rock Stars for multiplication practice. Maths homework is set weekly to support their learning in class. Symphony Maths is used as a tool for intervention and is also available for all children to use at home so they can practise basic skills.

Continuing Professional Development (CPD)

We strive to better ourselves and frequently share ideas and methods that have been particularly effective in our teaching. We do this at both a school and a trust level, with members of the teaching staff attending half termly maths network sessions. We are currently participating in training provided by the local Maths Hub to ensure that our delivery in maths mastery is of the highest standard.

Cross Curricular Links

Maths is taught across the curriculum, where appropriate, to ensure that skills taught in maths lessons are applied in other subjects.

Maths Events

We celebrate National Maths Day as part of the ALP Trust. Maths events are organised annually within the trust and some children have the opportunity of participating in these.

Curriculum Enrichment Opportunities

Autumn Term: Times Table Rockstars Competition Year 3 / Year 4

Spring Term: National Number Day

Summer Term: ALP Advantage – 5 Star Event ; My Money Week

WHOLE SCHOOL COVERAGE

The following grid shows the coverage of Maths units across Year 1-6 at our school.

Year 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value (within 10) FREE TRIAL VIEW					Number Addition and subtraction (within 10) VIEW					Geometry Shape VIEW	Consolidation
Spring term	Number Place value (within 20) VIEW	Number Addition and subtraction (within 20) VIEW					Number Place value (within 50) VIEW	Measurement Length and height VIEW	Measurement Mass and volume VIEW			
Summer term	Number Multiplication and division VIEW	Number Fractions VIEW	Geometry Position and direction VIEW	Number Place value (within 100) VIEW	Measurement Money VIEW	Measurement Time VIEW	Consolidation					

Year 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value FREE TRIAL VIEW				Number Addition and subtraction VIEW				Geometry Shape VIEW			
Spring term	Measurement Money VIEW	Number Multiplication and division VIEW				Measurement Length and height VIEW	Measurement Mass, capacity and temperature VIEW					
Summer term	Number Fractions VIEW		Measurement Time VIEW		Statistics VIEW		Geometry Position and direction VIEW		Consolidation			

Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value FREE TRIAL VIEW			Number Addition and subtraction VIEW				Number Multiplication and division A VIEW				
Spring term	Number Multiplication and division B VIEW			Measurement Length and perimeter VIEW		Number Fractions A VIEW			Measurement Mass and capacity VIEW			
Summer term	Number Fractions B VIEW		Measurement Money VIEW		Measurement Time VIEW			Geometry Shape VIEW		Statistics VIEW		Consolidation

Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value FREE TRIAL VIEW				Number Addition and subtraction VIEW			Measurement Area VIEW	Number Multiplication and division A VIEW		Consolidation	
Spring term	Number Multiplication and division B VIEW			Measurement Length and perimeter VIEW		Number Fractions VIEW			Number Decimals A VIEW			
Summer term	Number Decimals B VIEW		Measurement Money VIEW		Measurement Time VIEW		Consolidation	Geometry Shape VIEW		Statistics VIEW	Geometry Position and direction VIEW	

Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value FREE TRIAL VIEW		Number Addition and subtraction VIEW		Number Multiplication and division A VIEW		Number Fractions A VIEW					
Spring term	Number Multiplication and division B VIEW		Number Fractions B VIEW		Number Decimals and percentages VIEW		Measurement Perimeter and area VIEW		Statistics VIEW			
Summer term	Geometry Shape VIEW		Geometry Position and direction VIEW		Number Decimals VIEW		Number Negative numbers VIEW	Measurement Converting units VIEW		Measurement Volume VIEW		

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number Place value FREE TRIAL VIEW	Number Addition, subtraction, multiplication and division VIEW					Number Fractions A VIEW	Number Fractions B VIEW	Measurement Converting units VIEW			
Spring term	Number Ratio VIEW	Number Algebra VIEW	Number Decimals VIEW	Number Fractions decimals and percentages VIEW	Measurement Area, perimeter and volume VIEW	Statistics VIEW						
Summer term	Geometry Shape VIEW		Geometry Position and direction VIEW		Themed projects, consolidation and problem solving VIEW							

Mathematics Progression of Skills

COUNTING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Counting verbally as far as they can go. Points or touches (tags) each item, saying one number for each item, using the stable order of 1,2,3,4,5. Uses some number names and number language within play, and may show fascination with large numbers.	Recites numbers from 0 to 10 (and beyond) and back from 10 to 0. ELG Verbally count beyond 20, recognising the pattern of the counting system.	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			count backwards through zero to include negative numbers	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	use negative numbers in context, and calculate intervals across zero
Subitises one, two and three objects (without counting) Counts up to five items, recognising that the last number said represents the total counted so far (cardinal principle)	Subitises numbers to four and maybe five. Counts out up to 10 objects from a larger group. ELG Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5; ELG Explore and represent patterns within numbers up to	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 or backward	count from 0 in multiples of 4, 8, 50 and 100;	count in multiples of 6, 7, 9, 25 and 1000	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	

	10, including evens and odds, double facts and how quantities can be distributed equally						
		given a number, identify one more and one less		find 10 or 100 more or less than a given number	find 1000 more or less than a given number		
COMPARING NUMBERS							
Compares two small groups of up to five objects, saying when there are the same number of objects in each group, e.g. You've got two, I've got two. Same!	Uses number names and symbols when comparing numbers, showing interest in large numbers. Estimates of numbers of things, showing understanding of relative size ELG Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.	use the language of: equal to, more than, less than (fewer), most, least	compare and order numbers from 0 up to 100; use <, > and = signs	compare and order numbers up to 1000	order and compare numbers beyond 1000	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 000000 and determine the value of each digit
					<i>compare numbers with the same number of decimal places up to two decimal places</i>		
IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS							
	Shows awareness that numbers are made up (composed) of smaller numbers, partitioning in different ways with a wide range of objects. Conceptually subitises larger numbers by subitising smaller groups within the number, e.g. sees six as three and three.	identify and represent numbers using objects and pictorial representations including the number line	identify, represent and estimate numbers using different representations, including the number line	identify, represent and estimate numbers using different representations	identify, represent and estimate numbers using different representations		

READING AND WRITING NUMBERS (including Roman Numerals)

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begins to recognise numerals to 10. Links numerals with amounts up to 5 and maybe beyond Explores using a range of their own marks and signs to which they ascribe mathematical meanings	Recognise some numerals of personal significance. Recognises numerals 1 to 5. Selects the correct numeral to represent 1 to 5, then 1 to 10 objects. Puts numerals in order 0 to 10 (ordinality) Matches the numeral with a group of items to show how many there are (up to 10).	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	read and write numbers up to 1000 in numerals and in words		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
				<i>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</i>	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 Roman numerals to 1000 (M) and recognise years written in Roman numerals.	

UNDERSTANDING PLACE VALUE

			recognise the place value of each digit in a two-digit number (tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	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 <i>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</i> (copied from Fractions)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
					<i>find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths</i> (copied from Fractions)		<i>identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places</i> (copied from Fractions)

ROUNDING							
Nursery		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					round any number to the nearest 10, 100 or 1 000	round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	round any whole number to a required degree of accuracy
					<i>round decimals with one decimal place to the nearest whole number</i> (copied from Fractions)	<i>round decimals with two decimal places to the nearest whole number and to one decimal place</i> (copied from Fractions)	<i>solve problems which require answers to be rounded to specified degrees of accuracy</i> (copied from Fractions)
PROBLEM SOLVING							
Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers. Beginning to use understanding of number to solve practical problems in play and meaningful activities Beginning to recognise that each counting number is one more than the one before. Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same.	Begins to explore and work out mathematical problems, using signs and strategies of their own choice, including (when appropriate) standard numerals, tallies and “+” or “-“		use place value and number facts to solve problems	solve number problems and practical problems involving these ideas.	solve number and practical problems that involve all of the above and with increasingly large positive numbers	solve number problems and practical problems that involve all of the above	solve number and practical problems that involve all of the above

Number: Addition and Subtraction

NUMBER BONDS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	represent and use number bonds and related subtraction facts within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				
MENTAL CALCULATION							
		add and subtract one-digit and two-digit numbers to 20, including zero	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers	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 mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
		read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods)	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				use their knowledge of the order of operations to carry out calculations involving the four operations

Number: Addition and Subtraction

WRITTEN METHODS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation)		add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	
INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS							
			recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Number: Addition and Subtraction

PROBLEM SOLVING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$	solve problems with addition and subtraction: * using concrete objects and pictorial representations, including those involving numbers, quantities and measures * applying their increasing knowledge of mental and written methods	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
			<i>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)</i>				Solve problems involving addition, subtraction, multiplication and division

Number: Multiplication and Division

MULTIPLICATION & DIVISION FACTS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<i>count in multiples of twos, fives and tens</i>	<i>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</i>	<i>count from 0 in multiples of 4, 8, 50 and 100</i>	<i>count in multiples of 6, 7, 9, 25 and 1 000</i>	<i>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</i>	
			recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	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		
MENTAL CALCULATION							
				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 (appears also in Written Methods)	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	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers
			show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		recognise and use factor pairs and commutativity in mental calculations	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	<i>associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)</i>
WRITTEN CALCULATION							
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) 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 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 one-digit number using the formal written method of short division and interpret	divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where

						remainders appropriately for the context	appropriate for the context 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
							<i>use written division methods in cases where the answer has up to two decimal places (copied from Fractions (including decimals))</i>
PROPERTIES OF NUMBERS: MULTIPLES, FACTORS, PRIMES, SQUARE AND CUBE NUMBERS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					recognise and use factor pairs and commutativity in mental calculations (repeated)	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	identify common factors, common multiples and prime numbers <i>use common factors to simplify fractions; use common multiples to express fractions in the same denomination</i>
						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)	<i>calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm^3) and cubic metres (m^3), and extending to other units such as mm^3 and km^3</i>

Number: Multiplication and Division

ORDER OF OPERATIONS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							use their knowledge of the order of operations to carry out calculations involving the four operations
INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS							
				<i>estimate the answer to a calculation and use inverse operations to check answers</i> (copied from Addition and Subtraction)	<i>estimate and use inverse operations to check answers to a calculation</i> (copied from Addition and Subtraction)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy

Number: Multiplication and Division

PROBLEM SOLVING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	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	solve problems involving multiplying and adding, including using the distributive 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	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	solve problems involving addition, subtraction, multiplication and division <i>solve problems involving similar shapes where the scale factor is known or can be found</i>

Number: Fractions (including Decimals and Percentages)

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				count up and down in tenths	count up and down in hundredths		
RECOGNISING FRACTIONS							
		recognise, find and name a half as one of two equal parts of an object, shape or quantity	recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
		recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.					
		recognise, find and name a quarter as one of four equal parts of an object, shape or quantity		recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
COMPARING FRACTIONS							
				compare and order unit fractions, and fractions with the same denominators		compare and order fractions whose denominators are all multiples of the same number	compare and order fractions, including fractions >1

Number: Fractions (including Decimals and Percentages)

COMPARING DECIMALS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					compare numbers with the same number of decimal places up to two decimal places	read, write, order and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places
ROUNDING INCLUDING DECIMALS							
					round decimals with one decimal place to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy
EQUIVALENCE (INCLUDING FRACTIONS, DECIMALS AND PERCENTAGES)							
			write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	use common factors to simplify fractions; use common multiples to express fractions in the same denomination
					recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$)	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)
						recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
					recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
ADDITION AND SUBTRACTION OF FRACTIONS							
Nursery	Reception 1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and multiples of the same number	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
						recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >	

						1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)	
MULTIPLICATION AND DIVISION OF 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 (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)
							multiply one-digit numbers with up to two decimal places by whole numbers
							divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)
MULTIPLICATION AND DIVISION OF DECIMALS							
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							multiply one-digit numbers with up to two decimal places by whole numbers
					find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
							identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
							associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)
							use written division methods in cases where the answer has up to two decimal places

PROBLEM SOLVING							
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				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 whole number	solve problems involving numbers up to three decimal places	
					solve simple measure and money problems involving fractions and decimals to two decimal places.	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.	

Measurement

COMPARING AND ESTIMATING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]	compare and order lengths, mass, volume/capacity and record the results using >, < and =		estimate, compare and calculate different measures, including money in pounds and pence	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using 1 cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ .
Recalls a sequence of events in everyday life and stories	Orders and sequences familiar events. Uses everyday language related to time	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks			
	Measures short periods of time in simple ways.			estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (			
MEASURING and CALCULATING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items.	Orders two or three items by length or height Orders two items by weight or capacity.	measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds)	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	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	estimate, compare and calculate different measures , including money in pounds and pence	use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	solve problems involving the calculation and conversion of units of measure , using decimal notation up to three decimal places where appropriate

	ELG Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.						
				measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	recognise that shapes with the same areas can have different perimeters and vice versa

Measurement

MEASURING and CALCULATING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		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			
					find the area of rectilinear shapes by counting squares	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes <i>recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</i>	calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [e.g. mm ³ and km ³]. recognise when it is possible to use formulae for area and volume of shapes
TELLING THE TIME							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	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.	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)		
		recognise and use language relating to dates, including days of the week, weeks, months and years	know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use			

				vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating)			
					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	

Measurement

CONVERTING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	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
					read, write and convert time between analogue and digital 12 and 24-hour clocks	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
					solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres

Geometry: Properties of shapes

IDENTIFYING SHAPES AND THEIR PROPERTIES							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Responds to both informal language and common shape names. Shows awareness of shape similarities and differences between objects.	Use informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes. ELG <i>The curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.</i>	recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line		identify lines of symmetry in 2-D shapes presented in different orientations	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	recognise, describe and build simple 3-D shapes, including making nets
			identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces				illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
			identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]				
DRAWING AND CONSTRUCTING							

				complete turn; identify whether angles are greater than or less than a right angle	angles up to two right angles by size	* angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) * other multiples of 90°	vertically opposite, and find missing angles
				identify horizontal and vertical lines and pairs of perpendicular and parallel lines			

Geometry: Position and Direction

POSITION, DIRECTION AND MOVEMENT							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Responds to and uses language of position and direction. Predicts, moves and rotates objects to fit the space or create the shape they would like.	Use spatial language, including following and giving directions, Use relative terms and describe what they see from different viewpoints. Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning) Make simple maps of familiar and imaginative environments, with landmarks	describe position, direction and movement, including half, quarter and three-quarter turns.	use mathematical vocabulary to describe position, direction and movement including 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)		describe positions on a 2-D grid as coordinates in the first quadrant	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 grid (all four quadrants)
					describe movements between positions as translations of a given unit to the left/right and up/down		draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
					plot specified points and draw sides to complete a given polygon		
PATTERN							
Creates own spatial patterns showing some organisation or regularity. Explores and adds to simple linear patterns of two or three repeating items, e.g. stick, leaf (AB) or stick, leaf, stone (ABC) Joins in with simple patterns in sounds, objects, games and stories dance and movement, predicting what comes next.	Spots patterns in the environment, beginning to identify the pattern “rule” Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat		order and arrange combinations of mathematical objects in patterns and sequences				

Statistics

INTERPRETING, CONSTRUCTING AND PRESENTING DATA							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 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
			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				
SOLVING PROBLEMS							
				solve one-step and two-step questions [e.g. '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

EQUATIONS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.		use the properties of rectangles to deduce related facts and find missing lengths and angles	express missing number problems algebraically
				solve problems, including missing number problems, involving multiplication and division, including integer scaling			
			recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				find pairs of numbers that satisfy number sentences involving two unknowns
		represent and use number bonds and related subtraction facts within 20					enumerate all possibilities of combinations of two variables

Algebra

FORMULAE							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							use simple formulae
							<i>recognise when it is possible to use formulae for area and volume of shapes</i>
SEQUENCES							
		<i>sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening</i>	<i>compare and sequence intervals of time</i>				generate and describe linear number sequences
			<i>order and arrange combinations of mathematical objects in patterns</i>				

Ratio and Proportion

Statements only appear in Year 6 but should be connected to previous learning, particularly fractions and multiplication and division							
							Year 6
							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 the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
							solve problems involving similar shapes where the scale factor is known or can be found
							solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Mathematics Long Term Plan

Nursery

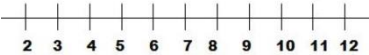
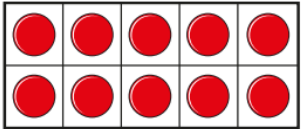
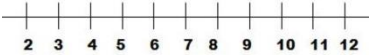
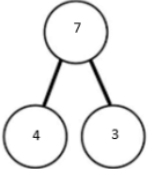
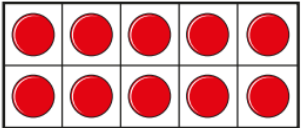
Autumn Term	
Teaching Points - Basic counting of everything - Count steps, jumps, people - Counting outside- flowers, trees, buckets in the sand pit. - Looking at the colours red, yellow, green and blue. - Sorting things in colour, red, yellow, green and blue	3 weeks
- Counting objects that are real to them e.g. cups, plates, teddies - Basic counting of small objects e.g. oranges, role-play food, fingers on one hand - Looking at pink, purple and other colours	3 weeks
- Basic counting of everything - Basic counting of maths specific counting items, cubes, building blocks, large construction - Basic shape- triangle, circle and square - Sorting by shapes	3 weeks
- Basic counting of everything - Recognition of numbers 1,2,3 - Looking at big and small - Sorting things using size - Looking at numbers everywhere - Spatial awareness- up and down, over and under	3 weeks
Spring Term	
Teaching Points - How to count 1,2,3 and what they look like to me. - Goldilocks and the 3 Bears, The Three Little Pigs, Three Billy Goats Gruff - Circle, square, triangle	3 weeks
- 1,2,3,4,5 Once I Caught a Fish Alive - 1,2 Buckle My Shoe - Using shapes to make pictures and finding them in your environment	3 weeks
- Recite numbers to 10 - Recognise numbers to 5 - Selecting appropriate shapes in construction- large and small	3 weeks

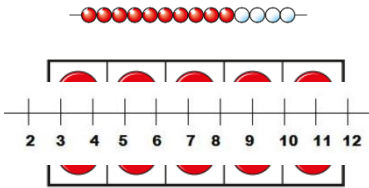
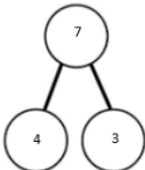
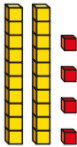
- Counting objects and knowing that the last number said is the amount - Junk modelling with 3D shapes	3 weeks
Summer Term	
Teaching Points How many do I see? - Numbers 1 to 5 - Ordering numbers 1 to 5 - Recite numbers to 10 - Beginning to recognise numbers 1 to 5 - Simple pattern ABAB - Positional language: In front, behind, on top	3 weeks
Just How Many Are There? - Numbers 1 to 5 - Ordering numbers 1 to 5 - Beginning to recognise numbers 1 to 5 - Recite numbers to 20 - Positional language: Underneath, next to, inside, outside - Familiar routes	3 weeks
Real world maths problems for Nursery (see key texts) - Sequence events- first, then - 2D shape - Positional language	3 weeks
Real world maths problems for Nursery (see key texts) - Recite numbers to 20 - Comparing quantities - Recording using tallies - Comparing size length and weight - Record using mark making for number or numbers	3 weeks

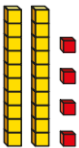
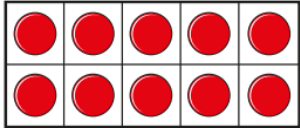
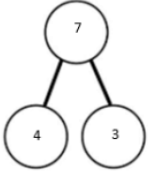
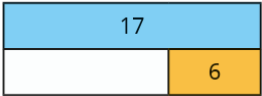
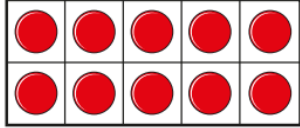
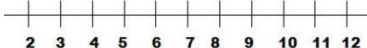
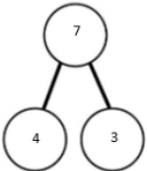
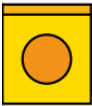
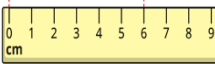
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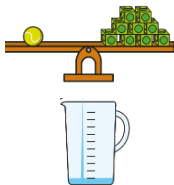
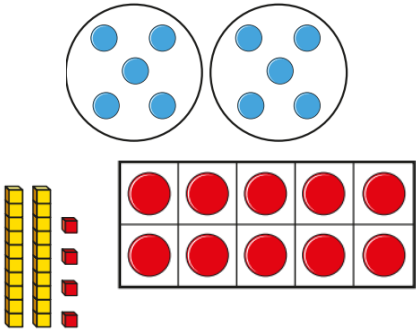
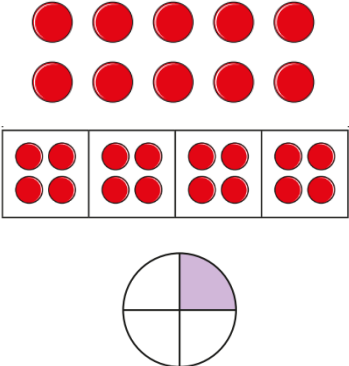
Autumn Term	
Teaching Points - Subitising within 3	1 week
- Focus on counting skills	1 week
- Explore how all numbers are made of 1s - Focus on composition of 3 and 4	1 week
- Subitise objects and sounds	1 week
- Comparison of sets - 'just by looking' - Use the language of comparison: more than and fewer than	1 week
- Focus on counting skills - Focus on the 'five-ness of 5' using one hand and the die pattern for 5	1 week
- Comparison of sets - by matching - Use the language of comparison: more than, fewer than, an equal number	1 week
- Explore the concept of 'whole' and 'part' - Focus on the composition of 3, 4 and 5	2 weeks
- Practice counting skills - Matching numerals to quantities within 10 - Verbal counting beyond 20	1 week
Spring Term	
Teaching Points - Subitise within 5 focusing on die patterns - Match numerals to quantities within 5	1 week
- Counting – focus on ordinality and the 'staircase' pattern - See that each number is one more than the previous number	1 week
- Focus on 5 - Focus on 6 and 7 as '5 and a bit' - Compare sets and use language of comparison: more than, fewer than, an equal number to Make unequal sets equal	3 weeks
- Focus on the 'staircase' pattern and ordering numbers	1 week
- Focus on ordering of numbers to 8 - Use language of less than	1 week
- Focus on 7 - Doubles – explore how some numbers can be made with 2 equal parts - Sorting numbers according to attributes - odd and even numbers	3 weeks
Summer Term	

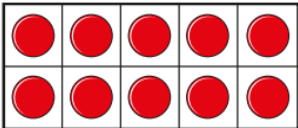
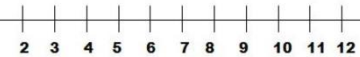
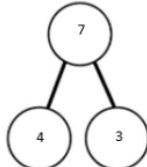
Teaching Points - Counting – larger sets and things that cannot be seen	1 week
- Subitising – to 6, including in structured arrangements	1 week
- Composition – ‘5 and a bit’ - Composition - of 10	2 weeks
- Comparison – linked to ordinality - Play track games	1 week
- Subitise to 5 - Introduce the rekenrek	1 week
- Automatic recall of bonds to 5 - Composition of numbers to 10 - Comparison - Number patterns - Counting	5 weeks

Autumn Term				
Strand	Units of Work	Length of Unit	Small Steps	Models and Images
Number	Place Value (within 10)	5 weeks	Sort objects Count objects Count objects from a larger group Represent objects Recognise numbers as words Count on from any number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to Compare numbers Order objects and number The number line	   
Number	Addition and Subtraction (within 10)	5 weeks	Introduce parts and wholes Part-whole model Write number sentences Fact families - addition facts Number bonds within 10 Systematic number bonds within 10 Number bonds to 10 Addition – add together Addition – add more Addition problems Find a part Subtraction – find a part Fact families – the eight facts Subtraction – take away/ cross out Subtraction – take away Subtraction on a number line	   

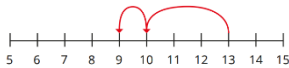
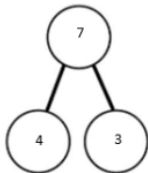
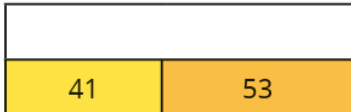
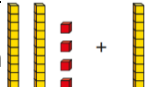
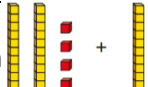
			Add or subtract 1 or 2	
Geometry	Shape	1 week	Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Patterns with 3-D and 2-D shapes	2D and 3D shapes Real 3D objects –junk modelling
Spring Term				
Number	Place value (within 20)	3 weeks	Count within 20 Understand 10 Understand 11,12 and13 Understand 14,15 and 16 Understand 17,18 and 19 Understand 20 1 more and 1 less The number line to 20 Use a number line to 20 Estimate on a number line to 20 Compare numbers Order numbers to 20	   

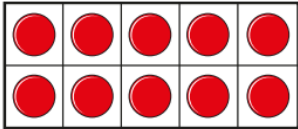
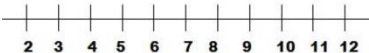
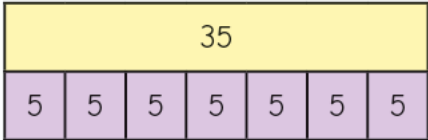
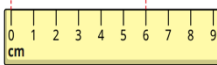
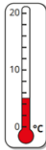
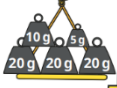
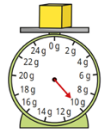
Number	Addition and Subtraction (within 20)	3 weeks	Add by counting on within 20 Add ones using number bonds Find and make number bonds to 20 Doubles Near doubles Subtract ones using number bonds Subtraction - counting back Subtraction - finding the difference Related facts Missing number problems	    
Number	Place Value (within 50)	2 weeks	Count from 20 to 50 20, 30, 40 and 50 Count by making groups of tens Groups of tens and ones Partition into tens and ones The number line to 50 Estimate on a number line to 50 1 more, 1 less	    
Measurement	Length and height	1 week	Compare lengths and heights Measure length using objects Measure length in centimetres	 

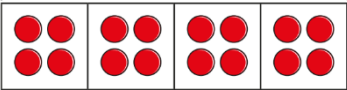
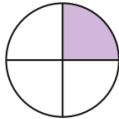
Measurement	Mass and Volume	2 weeks	Heavier and lighter Measure mass Compare mass Full and empty Compare volume Measure capacity Compare capacity	
Summer Term				
Number	Multiplication and Division	3 weeks	Count in 2's Count in 10's Count in 5's Recognise equal groups Add equal groups Make arrays Make doubles Make equal groups – grouping Make equal groups – sharing	
Number	Fractions	2 weeks	Recognise a half of an object or a shape Find a half of an object or a shape Recognise a half of a quantity Find a half of a quantity Recognise a quarter of an object or a shape Find a quarter of an object or a shape Recognise a quarter of a quantity Find a quarter of a quantity	
Geometry	Position and direction	1 week	Describe turns Describe position - left and right Describe position - forwards and backwards Describe position - above and below Ordinal numbers	

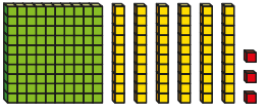
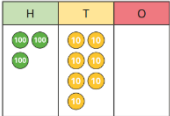
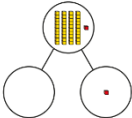
Number	Place Value (within 100)	2 weeks	Count from 50 to 100 Tens to 100 Partition into tens and ones The number to 100 1 more, 1 less Compare numbers with the same numbers of ten Compare any two numbers	    100 square
Measurement	Money	1 week	Unitising Recognising coins Recognising notes Count in coins	Coins and notes Purses and till Real-life objects
Measurement	Time	2 weeks	Before and after Days of the week Months of the year Hours, minutes and seconds Tell the time to the hour Tell the time to the half hour	Calendar Large and small clocks

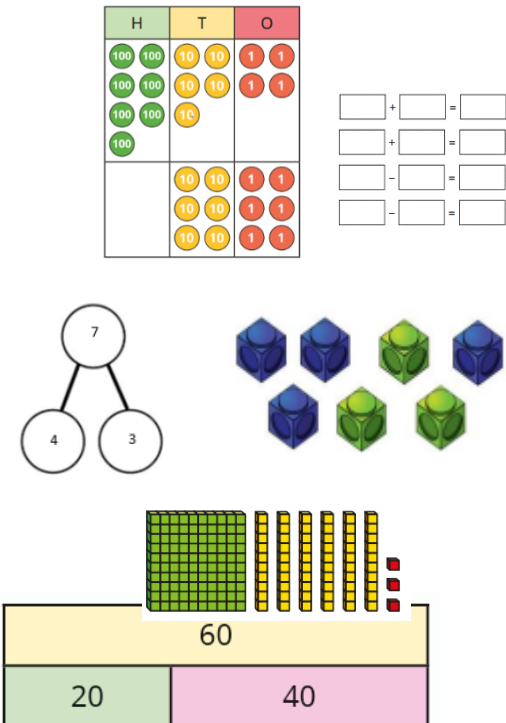
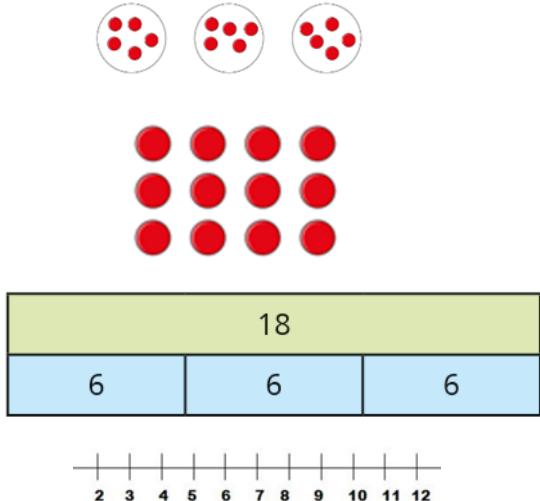
Autumn Term				
Strand	Units of Work	Length of Unit	Small Steps	Models and Images
Number	Place Value	4 weeks	Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line Compare objects Compare numbers Order objects and numbers Count in 2s, 5s and 10s Count in 3s	01234 23456789101112 <

			Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract 10s Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction Compare number sentences Missing number problems	 				
Geometry	Shape	3 weeks	Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Make patterns with 2-D and 3-D shapes	2D a Real <table><tr><th>Tens</th><th>Ones</th></tr><tr><td></td><td></td></tr></table> s junk m  + 	Tens	Ones		
Tens	Ones							
Spring Term								
Measurement	Money	2 weeks	Count money - pence Count money - pounds (notes and coins) Count money - pounds and pence Choose notes and coins Make the same amount Compare amounts of money Calculate with money Make a pound Find change Two-step problems	Coins and notes Purses and till Real-life objects				

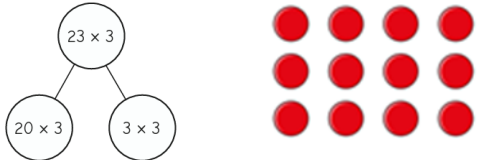
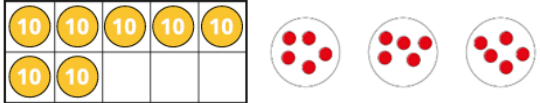
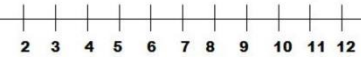
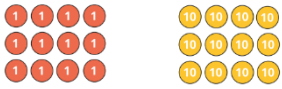
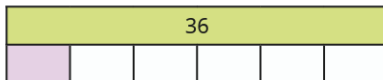
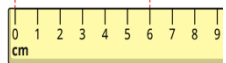
Number	Multiplication and Division	5 weeks	Recognise equal groups Make equal groups Add equal groups Introduce the multiplication symbol Multiplication sentences Use arrays Make equal groups – grouping Make equal groups – sharing The 2 times-table Divide by 2 Doubling and halving Odd and even numbers The 10 times-table Divide by 10 The 5 times-table Divide by 5 The 5 and 10 times- table	    
Measurement	Length and height	2 weeks	Measure in centimetres Measure in metres Compare lengths and heights Order lengths and heights Four operations with lengths and heights	Rules, tape measures and meter sticks 
Measurement	Mass, capacity and temperature	3 weeks	Compare mass Measure in grams Measure in kilograms Four operations with mass Compare volume and capacity Measure in millilitres Measure in litres Four operations with volume and capacity Temperature	    
Summer Term				
Number	Fractions	3 weeks	Introduction to parts and whole	

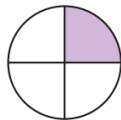
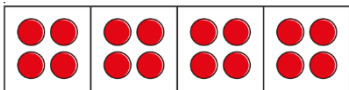
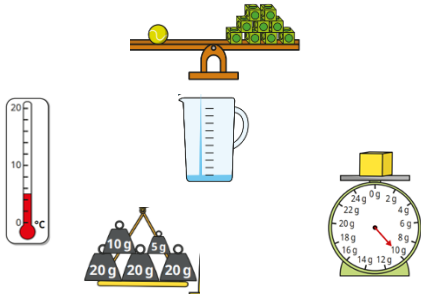
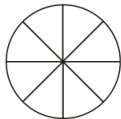
			Equal and unequal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Find the whole Unit fractions Non-unit fractions Recognise the equivalence of a half and two quarters Recognise three-quarters Find three-quarters Count in fractions up to a whole	 
Measurement	Time	3 weeks	O'clock and half past Quarter past and quarter to Tell time past the hour Tell time to the hour Tell the time to 5 minutes Minutes in an hour Hours in a day	Calendar Large and small clocks
Statistics	Statistics	2 weeks	Make tally charts Tables Block diagrams Draw pictograms (1-1) Interpret pictograms (1-1) Draw pictograms (2, 5 and 10) Interpret pictograms (2, 5 and 10)	Large scale class polls, tallies Could link to science
Geometry	Position and Direction	2 weeks	Language of position Describe movement Describe turns Describe movement and turns Shape patterns with turns	

Autumn Term				
Strand	Units of Work	Length of Unit	Small Steps	Models and Images
Number	Place Value	3 weeks	Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1,000 Hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1,000 Estimate on a number line to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s	    

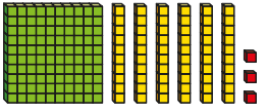
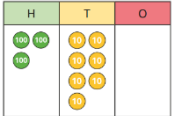
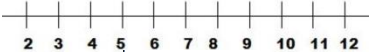
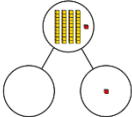
Number	Addition and Subtraction	5 weeks	Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern Add 1s across a 10 Add 10s across a 100 Subtract 1s across a 10 Subtract 10s across a 100 Make connections Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Add two numbers (across a 100) Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit and 3-digit numbers Subtract a 2-digit number from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions	
Number	Multiplication and Division (A)	4 weeks	Multiplication - equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2, 4 and 8 times-tables	

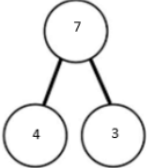
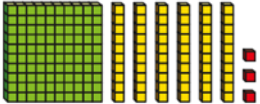
Spring Term

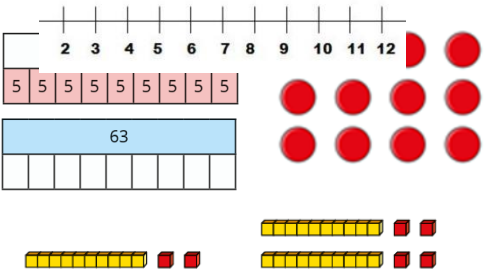
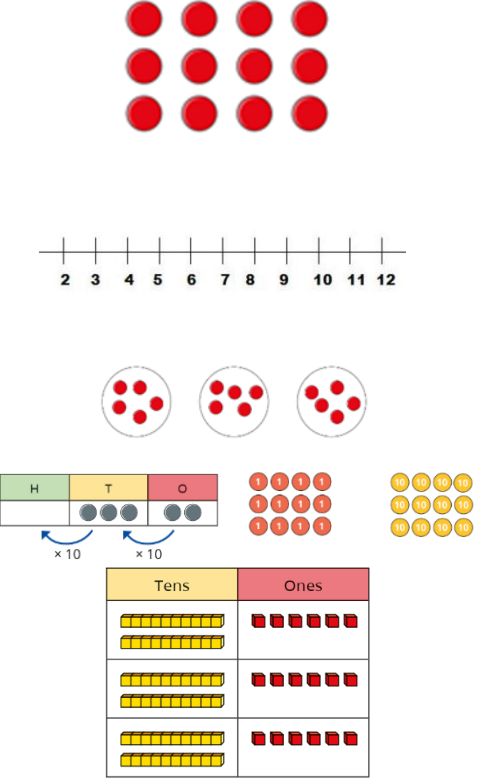
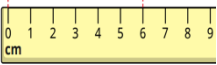
Number	Multiplication and Division (B)	3 weeks	Multiples of 10 Related calculations Reasoning about multiplication Multiply a 2-digit number by a 1-digit number - no exchange Multiply a 2-digit number by a 1-digit number - with exchange Link multiplication and division Divide a 2-digit number by a 1-digit number - no exchange Divide a 2-digit number by a 1-digit number - flexible partitioning Divide a 2-digit number by a 1-digit number - with remainders Scaling How many ways?	     
Measurement	Length and Perimeter	3 weeks	Measure in metres and centimetres Measure in millimetres Measure in centimetres and millimetres Metres, centimetres and millimetres Equivalent lengths (metres and centimetres) Equivalent lengths (centimetres and millimetres) Compare lengths Add lengths Subtract lengths What is perimeter? Measure perimeter	Rules, tape measures and meter sticks 

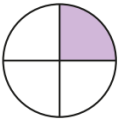
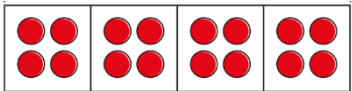
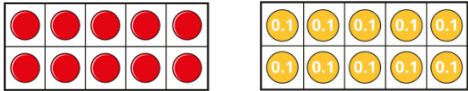
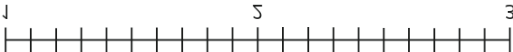
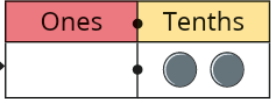
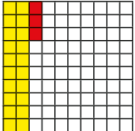
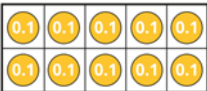
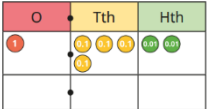
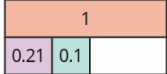
			Calculate perimeter	
Number	Fractions	3 weeks	Understand the denominators of unit fractions Compare and order unit fractions Understand the numerators of non-unit fractions Understand the whole Compare and order non-unit fractions Fractions and scales Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models	  
Measurement	Mass and capacity	3 weeks	Use scales Measure mass in grams Measure mass in kilograms and grams Equivalent masses (kilograms and grams) Compare mass Add and subtract mass Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract capacity and volume	
Summer Term				
Number	Fractions B	2 weeks	Add fractions Subtract fractions Partition the whole Unit fractions of a set of objects Non-unit fractions of a set of objects Reasoning with fractions of an amount	  
Measurement	Money	2 weeks	Convert pounds and pence Pounds and pence	Coins and notes Purses and till

			Add money Subtract money Find change	Real-life objects
Measurement	Time	3 weeks	Roman numerals to 12 Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock Use a.m. and p.m. Years, months and days Days and hours Hours and minutes - use start and end times Hours and minutes - use durations Minutes and seconds Units of time Solve problems with time	Calendar Large and small clocks Analogue and digital
Geometry	Shape	2 weeks	Turns and angles Right angles Compare angles Measure and draw accurately Horizontal and vertical Parallel and perpendicular Recognise and describe 2-D shapes Draw polygons Recognise and describe 3-D shapes Make 3-D shapes	2D and 3D shapes Rulers
Statistics	Statistics	2 weeks	Interpret pictograms Draw pictograms Interpret bar charts Draw bar charts Collect and represent data Two-way tables	Large scale class polls, tallies Could link to science

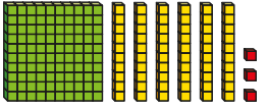
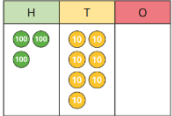
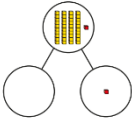
Autumn Term				
Strand	Units of Work	Length of Unit	Small Steps	Models and Images
Number	Place Value	4 weeks	Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 Thousands Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1,000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000	     

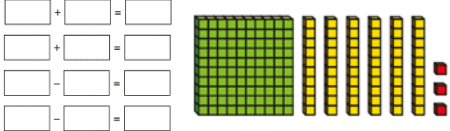
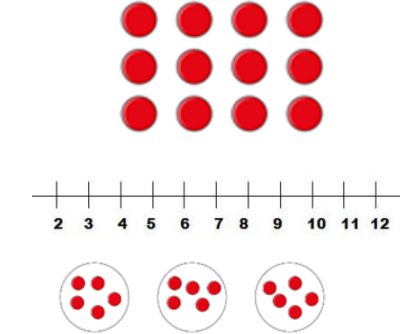
Number	Addition and Subtraction	3 weeks	Add and subtract 1s, 10s, 100s and 1,000s Add up to two 4-digit numbers - no exchange Add two 4-digit numbers - one exchange Add two 4-digit numbers - more than one exchange Subtract two 4-digit numbers - no exchange Subtract two 4-digit numbers - one exchange Subtract two 4-digit numbers - more than one exchange Efficient subtraction Estimate answers Checking strategies	    
Measurement	Area	1 week	What is area? Count squares Make shapes Compare areas	Squared paper Rulers and meter sticks
Number	Multiplication and Division (A)	3 weeks	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	
Spring Term				
Number	Multiplication and Division (B)	3 weeks	Factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts – multiplication and division Informal written methods for multiplication Multiply a 2-digit number by a 1-digit number Multiply a 3-digit number by a 1-digit number Divide a 2-digit number by a 1-digit number (1) Divide a 2-digit number by a 1-digit number (2) Divide a 3-digit number by a 1-digit number Correspondence problems Efficient multiplication	
Measurement	Length and Perimeter	2 weeks	Measure in kilometres and metres Equivalent lengths (kilometres and metres) Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes	Rules, tape measures and meter sticks A range of 2D and 3D shapes 

			Calculate the perimeter of rectilinear shapes Perimeter of regular polygons Perimeter of polygons	
Number	Fractions	4 weeks	Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Equivalent fraction families Add two or more fractions Add fractions and mixed numbers Subtract two fractions Subtract from whole amounts Subtract from mixed numbers	   
Number	Decimals A	3 weeks	Tenths as fractions Tenths as decimals Tenths on a place value chart Tenths on a number line Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions Hundredths as decimals Hundredths on a place value chart Divide a 1- or 2-digit number by 100	   
Summer Term				
Number	Decimals B	2 weeks	Make a whole with tenths Make a whole with hundredths Partition decimals Flexibly partition decimals Compare decimals Order decimals Round to the nearest whole number	  

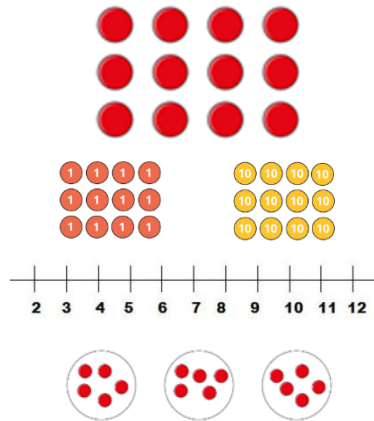
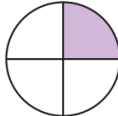
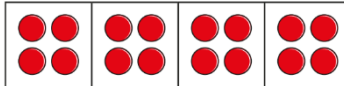
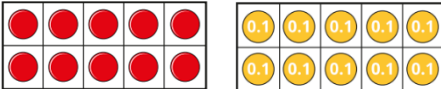
			Halves and quarters as decimals	
Measurement	Money	2 weeks	Write money using decimals Convert between pounds and pence Compare amounts of money Estimate with money Calculate with money Solve problems with money	Coins and notes Purses and till Real-life objects
Measurement	Time	2 weeks	Years, months, 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	Calendar Large and small clocks Analogue and digital
Geometry	Shape	2 weeks	Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure	2D and 3D shapes Rulers Mirrors
Statistics	Statistics	1 weeks	Step 1 Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs	Graph paper
Geometry	Shape	2 weeks	Describe position using coordinates Plot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a grid	Squared paper

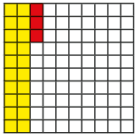
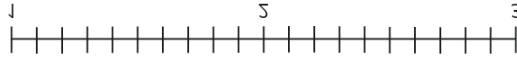
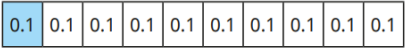
Autumn Term				
Strand	Units of Work	Length of Unit	Small Steps	Models and Images
Number	Place Value	3 weeks	Roman numerals to 1,000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 Powers of 10 10/100/1,000/10,000/100,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Round to the nearest 10, 100 or 1,000 Round within 100,000 Round within 1,000,000	    

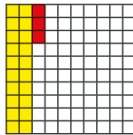
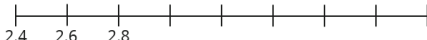
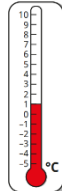
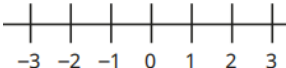
Number	Addition and Subtraction	2 weeks	Mental strategies Add whole numbers with more than four digits Subtract whole numbers with more than four digits Round to check answers Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers	   
Number	Multiplication and Division (A)	3 weeks	Multiples Common multiples Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiples of 10, 100 and 1,000	

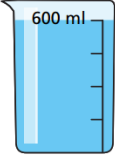
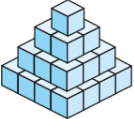
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HTh	TTh	Th	H	T	O											
7	6	8	0	0	0											
Number	Fractions (A)	4 weeks	Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number - breaking the whole Subtract two mixed numbers	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● 1 4 1 4 1 4 1 4 0 1												

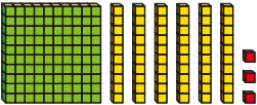
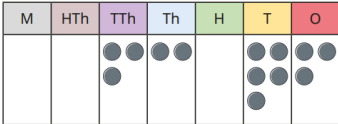
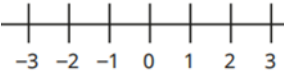
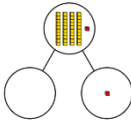
Spring Term

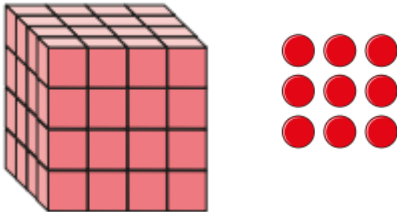
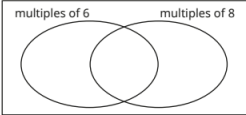
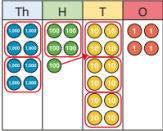
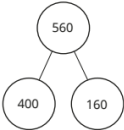
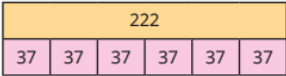
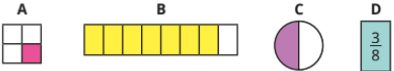
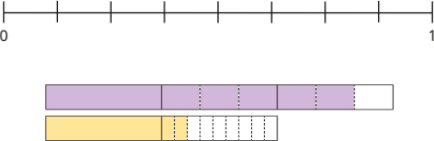
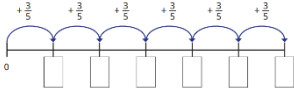
Number	Multiplication and Division (B)	3 weeks	Multiply up to a 4-digit number by a 1-digit number Multiply a 2-digit number by a 2-digit number (area model) Multiply a 2-digit number by a 2-digit number Multiply a 3-digit number by a 2-digit number Multiply a 4-digit number by a 2-digit number Solve problems with multiplication Short division Divide a 4-digit number by a 1-digit number Divide with remainders Efficient division Solve problems with multiplication and division	   <table border="1" data-bbox="1688 620 1993 809"><thead><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr></thead><tbody><tr><td>100</td><td>100</td><td>10 10 10 10</td><td>1 1</td></tr><tr><td>100</td><td>100</td><td>10 10 10 10</td><td>1 1</td></tr><tr><td>100</td><td>100</td><td>10 10 10 10</td><td>1 1</td></tr></tbody></table>	Th	H	T	O	100	100	10 10 10 10	1 1	100	100	10 10 10 10	1 1	100	100	10 10 10 10	1 1
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100	100	10 10 10 10	1 1																	
100	100	10 10 10 10	1 1																	
100	100	10 10 10 10	1 1																	
Number	Fractions (B)	2 weeks	Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer Calculate a fraction of a quantity Fraction of an amount Find the whole Use fractions as operators	   																
Number	Decimals and Percentages	3 weeks	Decimals up to 2 decimal places Equivalent fractions and decimals (tenths) Equivalent fractions and decimals (hundredths) Equivalent fractions and decimals Thousandths as fractions																	

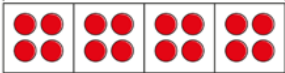
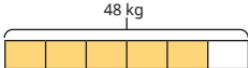
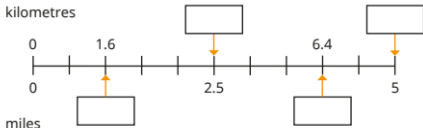
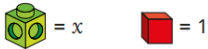
			Thousandths as decimals Thousandths on a place value chart Order and compare decimals (same number of decimal places) Order and compare any decimals with up to 3 decimal places Round to the nearest whole number Round to 1 decimal place Understand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals and percentages	   
Measurement	Perimeter and Area	2 weeks	Perimeter of rectangles Perimeter of rectilinear shapes Perimeter of polygons Area of rectangles Area of compound shapes Estimate area	Squared paper 2D shapes (preferably linear) ruler
Statistics	Statistics	2 weeks	Draw line graphs Read and interpret line graphs Read and interpret tables Two-way tables Read and interpret timetables	Graph paper
Summer Term				
Geometry	Shape	3 weeks	Understand and use degrees Classify angles Estimate angles Measure angles up to 180 Draw lines and angles accurately Calculate angles around a point Calculate angles on a straight line Lengths and angles in shapes Regular and irregular polygons 3-D shapes	2D and 3D shapes protractor
Geometry	Position and Direction	2 weeks	Read and plot coordinates Problem solving with coordinates Translation Translation with coordinates Lines of symmetry	Mirror 2D shapes

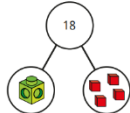
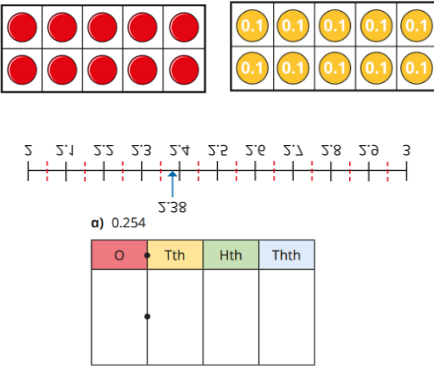
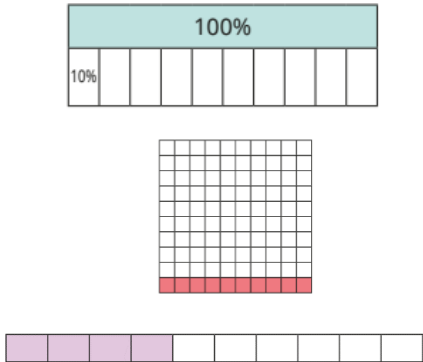
			Reflection in horizontal and vertical lines																																																	
Number	Decimals	3 weeks	Use known facts to add and subtract decimals within 1 Complements to 1 Add and subtract decimals across 1 Add decimals with the same number of decimal places Subtract decimals with the same number of decimal places Add decimals with different 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	   <table data-bbox="1646 470 2047 542"><tr><th>H</th><th>T</th><th>O</th><th>Tths</th><th>Hths</th><th>Thths</th></tr><tr><td></td><td>3</td><td>2</td><td>5</td><td></td><td></td></tr></table> <table data-bbox="1666 569 2027 777"><tr><th colspan="3">Ones</th><th colspan="3">Tenths</th><th colspan="3">Hundredths</th></tr><tr><td>1</td><td>1</td><td>1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.01</td><td>0.01</td><td>0.01</td></tr><tr><td>1</td><td></td><td></td><td>0.1</td><td></td><td></td><td>0.01</td><td>0.01</td><td></td></tr><tr><td>1</td><td>1</td><td>1</td><td>0.1</td><td>0.1</td><td></td><td>0.01</td><td></td><td></td></tr></table>	H	T	O	Tths	Hths	Thths		3	2	5			Ones			Tenths			Hundredths			1	1	1	0.1	0.1	0.1	0.01	0.01	0.01	1			0.1			0.01	0.01		1	1	1	0.1	0.1		0.01		
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Number	Negative numbers	1 week	Understand negative numbers Count through zero in 1s Count through zero in multiples Compare and order negative numbers Find the difference	 																																																
Measurement	Converting Units	2 weeks	Kilograms and kilometres Millimetres and millilitres Convert units of length Convert between metric and imperial units Convert units of time Calculate with timetables	Real life timetables Rulers, meter sticks, tape measures Clocks analogue and digital																																																

Measurement	Volume	1 week	Cubic centimetres Compare volume Estimate volume Estimate capacity	  
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Autumn Term				
Strand	Units of Work	Length of Unit	Small Steps	Models and Images
Number	Place Value	2 weeks	Numbers to 1,000,000 Numbers to 10,000,000 Read and write numbers to 10,000,000 Powers of 10 Number line to 10,000,000 Compare and order any integers Round any integer Negative numbers	   

Number	Addition, Subtraction, Multiplication and Division	5 weeks	Add and subtract integers Common factors Common multiples Rules of divisibility Primes to 100 Square and cube numbers Multiply up to a 4-digit number by a 2-digit number Solve problems with multiplication Short division Division using factors Introduction to long division Long division with remainders Solve problems with division Solve multi-step problems Order of operations Mental calculations and estimation Reason from known facts	     
Number	Fractions (A)	2 weeks	Equivalent fractions and simplifying Equivalent fractions on a number line Compare and order (denominator) Compare and order (numerator) Add and subtract simple fractions Add and subtract any two fractions Add mixed numbers Subtract mixed numbers Multi-step problems	  

Number	Fractions (B)	2 weeks	Multiply fractions by integers Multiply fractions by fractions Divide a fraction by an integer Divide any fraction by an integer Mixed questions with fractions Fraction of an amount Fraction of an amount – find the whole	    
Measurement	Converting Units	1 week	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures	 
Spring Term				
Number	Ratio	2 weeks	Add or multiply? Use ratio language Introduction to the ratio symbol Ratio and fractions Scale drawing Use scale factors Similar shapes Ratio problems Proportion problems Recipes	
Number	Algebra	2 weeks	1-step function machines 2-step function machines Form expressions Substitution Formulae Form equations Solve 1-step equations	 

			Solve 2-step equations Find pairs of values Solve problems with two unknowns	
Number	Decimals	2 weeks	Place value within 1 Place value – integers and decimals Round decimals Add and subtract decimals Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiply decimals by integers Divide decimals by integers Multiply and divide decimals in context	
Number	Fractions, Decimals and Percentages	2 weeks	Decimal and fraction equivalents Fractions as division Understand percentages Fractions to percentages Equivalent fractions, decimals and percentages Order fractions, decimals and percentages Percentage of an amount – one step Percentage of an amount – multi-step Percentages – missing values	
Measurement	Area, perimeter and volume	2 weeks	Shapes - same area Area and perimeter Area of a triangle – counting squares Area of a right-angled triangle Area of any triangle Area of a parallelogram Volume - counting cubes Volume of a cuboid	Squared paper 2D shapes cubes
Statistics	Statistics	2 weeks	Line graphs Dual bar charts	Large scale class polls, tallys Could link to science

			Read and interpret pie charts Pie charts with percentages Draw pie charts The mean	
Summer Term				
Geometry	Shape	3 weeks	Measure and classify angles Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in quadrilaterals Angles in polygons Circles Draw shapes accurately Nets of 3-D shapes	2D and 3D shapes Protractor ruler
Geometry	Position and Direction	1 weeks	The first quadrant Read and plot points in four quadrants Solve problems with coordinates Translations Reflections	Mirror 2D shapes
Consolidation				

