Reffley Academy Mathematics Curriculum

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The mathematics curriculum, at Reffley Academy, has been planned to:

- Give pupils fluency in the fundamentals of maths through intelligent practice (see implementation).
- Develop conceptual understanding as well as the ability to recall and apply knowledge.
- To reason and problem solve using strategies that are explicitly taught.
- To develop independent learning behaviours through maths lessons.
- To develop as confident and articulate communicators, using the specific mathematical vocabulary that is specifically taught.
- To develop resilience, curiosity and stamina to enable reasoning and problem solving with increased confidence.
- Ensures learning is without limits all children are given the opportunity to succeed at their own level.

	Intent		Implementation		Impact
Тс	ensure all children:	•	Power Maths is used as the teaching	Kr	now more
٠	Become fluent in the		scheme. The recommended	•	Pupils are taught age related content through the use of Power Maths.
	fundamentals of maths		overview and timings are used to	•	Pre-teaching takes place where required to enable the majority of children to
	through intelligent practice		give a broad and balanced maths		access the lesson.
	(see implementation).		curriculum at an age-appropriate	•	For a small minority, work is differentiated so that children can access the concept
•	Develop conceptual		level.		at their ability.
	understanding as well as the	•	Daily maths lessons follow the	•	Working walls showcase worked examples so that children can refer to them when
	ability to recall and apply		structure of Power Maths.		undertaking their independent work.
	knowledge.	•	Lessons are structured to ensure	٠	Relevant vocabulary is explicitly taught.
٠	To reason and problem solve		'inteligent practice' in flency,	•	End of term tests are used to ascertain what children know.
	using strategies that are		reasoning and problem solving	Do	o more
	explicitly taught.	٠	Intelligent practice is the precise	٠	Power Maths is structured so that concepts are taught in real life contexts.
٠	To develop independent		designing of pupil activities	•	Lessons have a challenge activity that gives pupils the opportunity to practice/use
	learning behaviours through		and practice questions, so that,		their problem solving skills.
	maths lessons.		rather than pupils repeating a	•	There is a specific focus of number work and learning tables to enable rapid recall
•	To develop as confident and		mechanical activity, they are taken		of facts.
	articulate communicators,		down a path where the thinking	•	Focus days take place to give children the opportunity to apply their mathematical
	using the specific		process is practiced with increasing		knowledge.
	mathematical vocabulary		creativity.	•	Test papers are analysed to ascertain gaps in children's knowledge, where needed,
	that is specifically taught.	•	An additional 15 minutes is allocated		intervention is delivered to address these gaps.
٠	To develop resilience,		during the day for maths knowledge	Re	emember more
	curiosity and stamina to		sessions, called Strive for Five. These	•	Lessons have a reflection section where pupils reflect on their learning.
	enable reasoning and		are timetabled for years 1-6 to	٠	Pupils revisit and embed concepts in daily 'Strive for Five' mini lessons
	problem solving with		develop rapid recall and retention	•	Stem sentences are taught and used to enable children to articulate their
	increased confidence.		and/or to develop reasoning and		mathematical knowledge.
			understanding for instant recall.	٠	Pupils are taught to use the working wall to jog their memory when they are stuck.
		•	limes lables Rockstars is used to	•	Adults make links wherever possible, for example when turning to page 64 a year 2
			aeveloping fluency in the recal of		teacher would say, 'How many tens and ones make up this number?'
			multiplication tables.	•	End of key stage tests are used to inform leaders and the wider audience what
					pupils have remembered from their learning across the key stage.

Maths Overview

Year	
EYFS	In the Early Years we use a range of activities from White Rose Maths #MathsEveryonecan. This guidance underpins the Educational Programme for Mathematics (DFE March 2021) and supports the delivery of a curriculum that embeds mathematical thinking and talk. It supports the ethos of the EYFS whilst at the same time enabling the creation of a mathematically rich curriculum. It allows for key mathematical concepts to be revisited and developed across the year. It provides a variety of opportunities to develop the understanding of number, shape, space and measure and spatial thinking.
	Our learning is underpinned by the NCETM and the six key areas of early mathematics learning (Cardinality and Counting; Comparison; Composition; Pattern; Shape and Space; Measures). We use Numberblocks and have reference to the supporting materials provided by NCETM.
	In Reception we also follow lessons from the Cambridge Maths Hub Mastering Number programme. This programme develops solid number sense, including fluency and flexibility with number facts, which has a lasting impact on future learning for all children.

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Number – multiplication and division5Multiplication and division (1)9Number – multiplication and division6Multiplication and division (2)9Statistics7Statistics7Measurement8Length and height5Geometry – properties of shape9Properties of shapes12Number – fractions10Fractions14Geometry – position and direction11Position and direction4Number – addition and subtraction12Problem solving and efficient methods12	Number - multiplication and division5Multiplication and division (1)9Number - multiplication and division6Multiplication and division (2)9Statistics7Statistics7Measurement8Length and height5Geometry - properties of shape9Properties of shapes12Number - fractions10Fractions14Geometry - position and direction11Position and direction4Number - addition and subtraction12Problem solving and efficient methods12Measurement13Time9	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction	18 Unit 1 2 3	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2)	10 12 9
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Number – fractions 10 Fractions 14 Geometry – position and direction 11 Position and direction 4 Number – addition and subtraction 12 Problem solving and efficient methods 12	Number - fractions 10 Fractions 14 Geometry - position and direction 11 Position and direction 4 Number - addition and subtraction 12 Problem solving and efficient methods 12 Measurement 13 Time 9 Measurement 14 Weight volume and temperature 10	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction Measurement Number – multiplication and division Number – multiplication and division Statistics Measurement	18 Unit 1 2 3 4 5 6 7 8	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2) Money Multiplication and division (1) Multiplication and division (2) Statistics Length and height	10 12 9 9 9 9 9 9 5
Geometry – position and direction 11 Position and direction 4 Number – addition and subtraction 12 Problem solving and efficient methods 12	Geometry – position and direction 11 Position and direction 4 Number – addition and subtraction 12 Problem solving and efficient methods 12 Measurement 13 Time 9 Measurement 14 Weight volume and temperature 10	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction Measurement Number – multiplication and division Statistics Measurement Geometry – properties of shape	18 Unit 1 2 3 4 5 6 7 8 9	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2) Money Multiplication and division (1) Multiplication and division (2) Statistics Length and height Properties of shapes	10 12 9 9 9 9 9 10 12 12 12 12 9 13 14 15 12
Number – addition and subtraction 12 Problem solving and efficient methods 12	Number – addition and subtraction 12 Problem solving and efficient methods 12 Measurement 13 Time 9 Measurement 14 Weight volume and temperature 10	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction Measurement Number – multiplication and division Number – multiplication and division Statistics Measurement Geometry – properties of shape Number – fractions	18 Unit 1 2 3 4 5 6 7 8 9 10	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2) Money Multiplication and division (1) Multiplication and division (2) Statistics Length and height Properties of shapes Fractions	10 12 9 9 9 9 10 12 12 12 12 12 13 14
	Measurement 13 Time 9 Measurement 14 Weight volume and temperature 10	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction Measurement Number – multiplication and division Statistics Measurement Geometry – properties of shape Number – fractions Geometry – position and direction	18 Unit 1 2 3 4 5 6 7 8 9 10 11	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2) Money Multiplication and division (1) Multiplication and division (2) Statistics Length and height Properties of shapes Fractions Position and direction	10 12 9 9 9 9 10 12 12 12 9 12 13 14 4
Measurement 13 Time 9	Measurement 16 Weight volume and temperature 10	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction Measurement Number – multiplication and division Number – multiplication and division Statistics Measurement Geometry – properties of shape Number – fractions Geometry – position and direction Number – addition and subtraction	18 Unit 1 2 3 4 5 6 7 8 9 10 11 12	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2) Money Multiplication and division (1) Multiplication and division (2) Statistics Length and height Properties of shapes Fractions Position and direction Problem solving and efficient methods	10 12 9 9 9 9 112 9 112 9 112 112 9 112 112 112 112 112 112 112 112
	14 Weight, volume and temperature 10	Year 2	Measurement Strand Number – number and place value Number – addition and subtraction Number – addition and subtraction Measurement Number – multiplication and division Number – multiplication and division Statistics Measurement Geometry – properties of shape Number – fractions Geometry – position and direction Number – addition and subtraction Measurement	18 Unit 1 2 3 4 5 6 7 8 9 10 11 12 13	Number of Lessons Numbers to 100 Addition and subtraction (1) Addition and subtraction (2) Money Multiplication and division (1) Multiplication and division (2) Statistics Length and height Properties of shapes Fractions Position and direction Problem solving and efficient methods Time	10 12 9 9 9 9 112 9 112 112 112 112 112 112 112 112 112 112 112 112 112 112 112 112

Strand	Unit		Number of Lessons
Number – number and place value	1	Place value within 1,000	11
Number – addition and subtraction	2	Addition and subtraction (1)	10
Number – addition and subtraction	3	Addition and subtraction (2)	9
Number – multiplication and division	4	Multiplication and division (1)	15
Number – multiplication and division	5	Multiplication and division (2)	14
Measurement	6	Money	5
Statistics	7	Statistics	5
Measurement	8	Length	11
Number – fractions	9	Fractions (1)	11
Number – fractions	10	Fractions (2)	9
Measurement	11	Time	11
Geometry – properties of shapes	12	Angles and properties of shapes	9
Measurement	13	Mass	6
Measurement	14	Capacity	6

Year	Power Maths Units				
Year 4		Strand	Unit		Number of Lessons
		Number – number and place value	1	Place value – 4-digit numbers (1)	9
		Number – number and place value	2	Place value – 4-digit numbers (2)	9
		Number – addition and subtraction	3	Addition and subtraction	15
		Measurement	4	Measure – perimeter	5
		Number – multiplication and division	5	Multiplication and division (1)	11
		Number – multiplication and division	6	Multiplication and division (2)	15
		Measurement	7	Measure – area	5
		Number – fractions (including decimals)	8	Fractions (1)	7
		Number – fractions (including decimals)	9	Fractions (2)	8
		Number – fractions (including decimals)	10	Decimals (1)	10
		Number – fractions (including decimals)	11	Decimals (2)	7
		Measurement	12	Money	9
		Measurement	13	Time	5
		Statistics	14	Statistics	5
		Geometry – properties of shapes	15	Geometry – angles and 2D shapes	10
		Geometry – position and direction	16	Geometry – position and direction	6

Year 5	Strand	Unit		Number of Lessons
	Number – number and place value	1	Place value within 100,000	8
	Number – number and place value	2	Place value within 1,000,000	8
	Number – addition and subtraction	3	Addition and subtraction	10
	Statistics	4	Graphs and tables	5
	Number – multiplication and division	5	Multiplication and division (1)	10
	Measurement	6	Measure – area and perimeter	7
	Number – multiplication and division	7	Multiplication and division (2)	11
	Number – fractions (including decimals and percentages)	8	Fractions (1)	8
	Number – fractions (including decimals and percentages)	9	Fractions (2)	12
	Number – fractions (including decimals and percentages)	10	Fractions (3)	7
	Number – fractions (including decimals and percentages)	11	Decimals and percentages	12
	Number – fractions (including decimals and percentages)	12	Decimals	15
	Geometry – properties of shapes	13	Geometry – properties of shapes (1)	7
	Geometry – properties of shapes	14	Geometry – properties of shapes (2)	5
	Geometry – position and direction	15	Geometry – position and direction	4
	Measurement	16	Measure - converting units	10
	Measurement	17	Measure – volume and capacity	4

Year Power Maths Units

Strand	Unit		Number of Lessons
Number – number and place value	1	Place value within 10,000,000	7
Number – addition, subtraction, multiplication and division	2	Four operations (1)	10
Number – addition, subtraction, multiplication and division	2	Four operations (2)	9
Number – fractions	4	Fractions (1)	11
Number – fractions	5	Fractions (2)	9
Geometry – position and direction	6	Geometry – position and direction	4
Number – fractions (including decimals and percentages)	7	Decimals	9
Number – fractions (including decimals and percentages)	8	Percentages	9
Algebra	9	Algebra	11
Measurement	10	Measure – imperial and metric measures	5
Measurement	11	Measure – perimeter, area and volume	11
Ratio and proportion	12	Ratio and proportion	9
Geometry – properties of shapes	13	Geometry – properties of shapes	12
Number – number and place value	14	Problem solving	14
Statistics	15	Statistics	10

Maths Progression – National Curriculum knowledge

Number	and place value
Year 1	• count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
	• count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
	given a number, identify one more and one less
	• identify and represent numbers using objects and pictorial representations including the number line, and use
	the language of: equal to, more than, less than (fewer), most, least
	read and write numbers from 1 to 20 in numerals and words
Year 2	• count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
	 recognise the place value of each digit in a two-digit number (tens, ones)
	identify, represent and estimate numbers using different representations, including the number line
	 compare and order numbers from 0 up to 100; use and = signs
	 read and write numbers to at least 100 in numerals and in words
	use place value and number facts to solve problems.
Year 3	• count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
	compare and order numbers up to 1000
	 identify, represent and estimate numbers using different representations
	 read and write numbers up to 1000 in numerals and in words
	solve number problems and practical problems involving these ideas
Year 4	• count in multiples of 6, 7, 9, 25 and 1000
	find 1000 more or less than a given number
	count backwards through zero to include negative numbers
	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
	order and compare numbers beyond 1000
	 identify, represent and estimate numbers using different representations
	 round any number to the nearest 10, 100 or 1000
	• solve number and practical problems that involve all of the above and with increasingly large positive numbers
	• 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.
Year 5	• read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit

	• count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
	• interpret negative numbers in context, count forwards and backwards with positive and negative whole
	numbers, including through zero
	• round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
	 solve number problems and practical problems that involve all of the above
	 read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
Year 6	 read write order and compare numbers up to 10 000 000 and determine the value of each digit
rear o	 round any whole number to a required degree of accuracy.
	 Use negative numbers in context, and calculate intervals across zero.
	 use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above
Number	addition and subtraction
Voar 1	- addition and subtraction
Teal I	• read, while and interpret mathematical statements involving addition (+), subtraction (-) and equals (-) signs
	represent and use number bonds and related subtraction facts within 20
	• add and subtract one-digit and two-digit numbers to 20, including zero
	• solve one-step problems that involve addition and subtraction, using concrete objects and pictorial
	representations, and missing number problems such as $7 = -9$.
Year 2	• solve problems with addition and subtraction:
	 using concrete objects and pictorial representations, including those involving numbers, quantities and
	measures
	o applying their increasing knowledge of mental and written methods
	• recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
	• add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
	o a two-digit number and ones
	• a two-digit number and tens
	o two-aigit numbers
	o adding three one-digit numbers
	• show that addition of two numbers can be done in any order (commutative) and subtraction of one number
	from another cannot
	• recognise and use the inverse relationship between addition and subtraction and use this to check calculations
	and solve missing number problems.
Year 3	add and subtract numbers mentally, including:
	 a three-digit number and ones
	o a three-digit number and tens
	 a three-digit number and hundreds
	• add and subtract numbers with up to three digits, using formal written methods of columnar addition and
	subtraction
	estimate the answer to a calculation and use inverse operations to check answers
	• solve problems, including missing number problems, using number facts, place value, and more complex
× •	addition and subtraction
Year 4	• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and
	subtraction where appropriate
	estimate and use inverse operations to check answers to a calculation
	• solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use
	and why.
Year 5	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar
	addition and subtraction)
	add and subtract numbers mentally with increasingly large numbers
	• use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
	 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use
Verse	and wny.
rear 6	 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of land multiplication
	iong multiplication
	avide 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
	 aivide numbers up to 4 aigits by a two-digit number using the formal written method of short division where
	appropriate, interpreting remainders according to the context
	 perform mental calculations, including with mixed operations and large numbers

	-	
	•	identify common factors, common multiples and prime numbers
	•	use their knowledge of the order of operations to carry out calculations involving the four operations
	•	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use
		and why solve problems involving addition, subtraction, multiplication and division
		use estimation to check answers to calculations and determine in the context of a problem an appropriate
		degree of accuracy
Number	– mi	ultiplication and division
Year 1	•	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.
Year 2	•	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
	•	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
	•	show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
	•	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Year 3	٠	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
	•	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
	•	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.
Year 4	•	recall multiplication and division facts for multiplication tables up to 12×12
	•	dividing by 1; multiplying together three numbers
	•	recognise and use factor pairs and commutativity in mental calculations
		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.
Year 5	•	identify multiples and factors, including finding all factor pairs of a number, and common factors of two
	•	know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers
	•	establish whether a number up to 100 is prime and recall prime numbers up to 19
	•	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
	•	multiply and divide numbers mentally drawing upon known facts
	•	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
	•	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Mathematics – key stages 1 and 2 33 Statutory requirements
	•	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
	•	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
N- C	 	involving simple rates
Year 6	•	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
	•	divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division.
	1	and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the
	1	context
	•	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where
	1	appropriate, interpreting remainders according to the context
	•	perform mental calculations, including with mixed operations and large numbers

	identify common factors, common multiples and prime numbers
	• use their knowledge of the order of operations to carry out calculations involving the four operations
	• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use
	and why
	 solve problems involving addition, subtraction, multiplication and division
	• use estimation to check answers to calculations and determine, in the context of a problem, an appropriate
	degree of accuracy
Number	– tractions
Year 1	• recognise, find and name a half as one of two equal parts of an object, shape or quantity
	recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.
Year 2	• recognise, find, name and write fractions 31, 41, 42 and 43 of a length, shape, set of objects or quantity
Veer 2	write simple fractions for example, 21 of 6 = 3 and recognise the equivalence of 4 2 and 21.
rears	• count up and down in tentils; recognise that tentils arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
	 recognise find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small
	denominators
	 recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
	 recognise and show, using diagrams, equivalent fractions with small denominators
	• add and subtract fractions with the same denominator within one whole [for example, 75 + 71 = 76]
	• compare and order unit fractions, and fractions with the same denominators
	solve problems that involve all of the above
Number	– fractions (including decimals)
Year 4	 recognise and show, using diagrams, families of common equivalent fractions
	• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred
	and dividing tenths by ten.
	• 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
	add and subtract fractions with the same denominator
	 recognise and write decimal equivalents of any number of tenths or nundreaths recognise and write decimal equivalents to 4.1, 2.1, 4.2.
	 recognise and write decimal equivalents to 4 1, 2 1, 4 3 find the effect of dividing a one, or two digit number by 10 and 100, identifying the value of the digits in the
	 Influ the effect of dividing a one- of two-digit humber by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
	 round decimals with one decimal place to the pearest whole number
	 compare numbers with the same number of decimal places up to two decimal places
	 solve simple measure and money problems involving fractions and decimals to two decimal places.
Number	– farctions (including decimals and percentages
Year 5	compare and order fractions whose denominators are all multiples of the same number
	• identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and
	hundredths
	recognise mixed numbers and improper fractions and convert from one form to the other and write
	mathematical statements > 1 as a mixed number [for example, 5 2 + 5 4 = 5 6 = 1 5 1]
	• add and subtract fractions with the same denominator and denominators that are multiples of the same
	number
	 multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams read and write docimal numbers as fractions [for example, 0.71 – 100.71.]
	 recognise and use thousand the and relate them to tenths, hundred the and decimal equivalents.
	 recognise and use thousand its and relate them to tenths, number and to one decimal place round decimals with two decimal places to the nearest whole number and to one decimal place
	 read, write, order and compare numbers with up to three decimal places
	 solve problems involving number up to three decimal places
	• 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, and as a decimal
	solve problems which require knowing percentage and decimal equivalents of 21, 41, 51, 52, 54 and those
	fractions with a denominator of a multiple of 10 or 25.
Year 6	use common factors to simplify fractions; use common multiples to express fractions in the same
	denomination
	 compare and order fractions, including fractions > 1
	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
1	

	• multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 41 × 21 = 81]
	 divide proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]
	• associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple
	fraction [for example, 8 3]
	• identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by
	10, 100 and 1000 giving answers up to three decimal places
	 multiply one-digit numbers with up to two decimal places by whole numbers
	• use written division methods in cases where the answer has up to two decimal places
	 solve problems which require answers to be rounded to specified degrees of accuracy
	• recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Ratio and	d proportion
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
Algebra	
Year 6	use simple formulae
	generate and describe linear number sequences
	express missing number problems algebraically
	• find pairs of numbers that satisfy an equation with two unknowns
	enumerate possibilities of combinations of two variables.
Measure	ment
Year 1	compare, describe and solve practical problems for:
	 lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
	 mass/weight [for example, heavy/light, heavier than, lighter than]
	• capacity and volume [for example, full/empty, more than, less than, half, half full, guarter]
	• time [for example, quicker, slower, earlier, later]
	measure and begin to record the following:
	 lengths and heights
	 mass/weight
	 capacity and volume
	 time (hours, minutes, seconds)
	 recognise and know the value of different denominations of coins and notes
	• sequence events in chronological order using language [for example, before and after, next, first, today.
	vesterday, tomorrow, morning, afternoon and evening]
	 recognise and use language relating to dates, including days of the week, weeks, months and years
	• tell the time to the hour and half past the hour and draw the hands on a clock face to show these times
Year 2	• choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm);
	mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales,
	thermometers and measuring vessels
	• compare and order lengths, mass, volume/capacity and record the results using >, < and =
	• 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
	compare and sequence intervals of time
	• tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face
	to show these times
	 know the number of minutes in an hour and the number of hours in a day.
Year 3	• measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
	• measure the perimeter of simple 2-D shapes
	• add and subtract amounts of money to give change, using both f and p in practical contexts
	• tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and
	24-hour clocks
	• estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of
	seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight

	• know the number of seconds in a minute and the number of days in each month, year and leap year
	compare durations of events [for example to calculate the time taken by particular events or tasks].
Year 4	Convert between different units of measure [for example, kilometre to metre; hour to minute]
	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
	find the area of rectilinear shapes by counting squares
	• estimate, compare and calculate different measures, including money in pounds and pence Mathematics – key
	stages 1 and 2 28 Statutory requirements
	 read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes, minutes to coconde years to months, weaks to
	• solve problems involving converting from nours to minutes; minutes to seconds; years to months; weeks to
Voar 5	capyort between different units of matrix measure (for example, kilematre and metre) continuate and matrix
Tear 5	centimetre and millimetre: gram and kilogram: litre and millilitre)
	 understand and use approximate equivalences between metric units and common imperial units such as
	inches, pounds and pints
	 measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
	• calculate and compare the area of rectangles (including squares), and including using standard units, square
	centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
	• estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for
	example, using water]
	solve problems involving converting between units of time
	• use all four operations to solve problems involving measure [for example, length, mass, volume, money] using
	decimal notation, including scaling.
Year 6	 solve problems involving the calculation and conversion of units of measure, using decimal notation up to three desired places where expressions.
	three decimal places where appropriate
	• use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using desimal notation to up to three.
	decimal places
	 convert between miles and kilometres
	 recognise that shapes with the same areas can have different perimeters and vice versa
	 recognise when it is possible to use formulae for area and volume of shapes
	 calculate the area of parallelograms and triangles
	 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic
	centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].
Geometr	ry – properties of shapes
Year 1	Pupils should be taught to:
	 recognise and name common 2-D and 3-D shapes, including:
	2-D shapes [for example, rectangles (including squares), circles and triangles]
	3-D shapes [for example, cuboids (including cubes), pyramids and spheres].
Year 2	• identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a
	vertical line
	 Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 3 D shapes on the surface of 3 D shapes. If a symple is sirely an a sylinder and a triangle on a
	• Identity 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a thangle on a puramid]
	 compare and sort common 2-D and 3-D shapes and everyday objects
Year 3	 draw 2-D shapes and make 3-D shapes using modelling materials: recognise 3-D shapes in different
	orientations and describe them
	 recognise angles as a property of shape or a description of a turn
	• identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and
	four a complete turn; identify whether angles are greater than or less than a right angle
	identify horizontal and vertical lines and pairs of perpendicular and parallel lines
Year 4	• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and
	sizes
	identify acute and obtuse angles and compare and order angles up to two right angles by size
	identify lines of symmetry in 2-D shapes presented in different orientations
	complete a simple symmetric figure with respect to a specific line of symmetry.
Year 5	identify 3-D shapes, including cubes and other cuboids, from 2-D representations
	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
	 draw given angles, and measure them in degrees (o)

	identify:
	 angles at a point and one whole turn (total 3600)
	 angles at a point on a straight line and 2 1 a turn (total 1800)
	 other multiples of 90o
	 use the properties of rectangles to deduce related facts and find missing lengths and angles
	distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
Year 6	draw 2-D shapes using given dimensions and angles
	 recognise, describe and build simple 3-D shapes, including making nets
	• compare and classify geometric shapes based on their properties and sizes and find unknown angles in any
	triangles, quadrilaterals, and regular polygons
	• illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter
	is twice the radius
	• recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing
	angles.
Geomet	ry – position and direction
Year 1	describe position, direction and movement, including whole, half, quarter and threequarter turns.
Year 2	 order and arrange combinations of mathematical objects in patterns and sequences
	• 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 anticlockwise).
Year 4	 describe positions on a 2-D grid as coordinates in the first quadrant
	• describe movements between positions as translations of a given unit to the left/right and up/down
	• plot specified points and draw sides to complete a given polygon.
Year 5	• 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.
Year 6	describe positions on the full coordinate grid (all four quadrants)
	• draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
Statistic	5
Year 2	interpret and construct simple pictograms, tally charts, block diagrams and simple tables
	• 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.
Year 3	 interpret and present data using bar charts, pictograms and tables
	• solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using
	information presented in scaled bar charts and pictograms and tables.
Year 4	• interpret and present discrete and continuous data using appropriate graphical methods, including bar charts
	and time graphs.
	 solve comparison sum and difference problems using information presented in bar charts, pictograms, tables
	and other graphs
Year 5	 solve comparison sum and difference problems using information presented in a line graph
	 complete read and interpret information in tables including timetables
Vear 6	interpret and construct nie charts and line graphs and use these to solve problems
	 Interpret and construct pre charts and line graphs and use these to solve problems calculate and interpret the mean as an average
1	 calculate and interpret the mean as an average

Maths progression of knowledge and skills – Power Maths

Please n	ote reasoning and problem solving is interweaved throughout the power maths units. Some units cover more than
one strai	nd but they have been placed in the main strand they cover.
Strand 1	- Number – number and place value
Year	Content overview
EYFS	Have a deep understanding of number to 10, including the composition of each number.
	Subitise (recognise quantities without counting) up to 5.
	Recognise the pattern of the counting system.
	• Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or
	the same as the other quantity.
	Verbally count, (recognising the pattern of the counting system)
Year 1	Unit 1 Numbers to 10 - 12 lessons
	Confidently count forwards and backwards to and from 10.
	Recognise one more and one less than a number up to 10, represent this using concrete, pictorial and abstract
	representations
	Compare and order numbers to 10.
	Use ordinal numbers to describe the order of things or events.
	Unit 2 Part-whole within 10 - 5 lessons
	Know numbers to 10
	 Introduction to the part-whole model, focusing on different ways of partitioning numbers to 10.
	Use the part whole model to write and compare number bonds
	Unit 6 Numbers to 20 - 7 lessons
	Count, compare and order numbers to 20.
	Unit 9 numbers to 50 - 11 lessons
	Understand numbers to 50 - their place value and relative sizes (this will enable children to extend their
	calculation skills and number knowledge to larger numbers)
	Count in multiples of 2 and 5.
	• Know the multiples of 2 end in 0, 2, 4, 6 or 8 and that multiples of 5 end in 0 or 5.
	 Solve word problems by identifying the number sentences that relate to the problems
	Unit 16 Numbers to 100-9 lessons
	 Identify patterns in 2-digit numbers - 1 more and 1 less, 10 more and 10 less
	Partition numbers and identify the place value of digits within a number.
	Compare two 2-digit numbers, and then three or more numbers up to 100.
	Explore number bonds to 100 - link number bonds to 100 with number bonds to 10
Year 2	Unit 1 Numbers to 100
	Sort, compare and order numbers to 100.
	• Use representations to show a number's 'tens' and 'ones', use this to compare and order.
	• Use part-whole models and place value grids to show partitioning of numbers, use to support reasoning when
	comparing and ordering.
	Count forwards and backwards efficiently in steps of 2, 3, 5, and 10.
Year 3	Unit 1 - Place value within 1,000
	Be able to count in 50s and 100s.
	• Know that a 3-digit number is made up of some 100s, 10s and 1s – be able to represent this in different ways
	(for example, on a place value grid with counters or in a part-whole model).
	Know where different numbers lie on a number line to 1,000
	Compare and order 3-digit numbers
Year 4	Unit 1 - Place value – 4-digit numbers (1)
	Count in 10s, compare and order 4-digit numbers.
	Unit 2 – Place value – 4 digit numbers (2)
	 Know that 4-digit numbers are made up of 1,000s, 100s, 10s and 1s
	Compare, order and round numbers to the nearest 10, 100 and 1,000.
	Count forwards and backwards on number lines, including backwards through zero and into negative
	numbers.
Year 5	Unit 1: Place value within 100,000
	• To be able to work with numbers up to 100,000.
	Unit 2: Place value within 1,000,000
	 Develop fluency by partitioning and recombining them in different ways.

	• Use a number line to find and identify numbers up to 1,000,000, compare and order them.
	Round numbers in the 100,000s.
	• Develop understanding of negative numbers and how they relate and compare to positive numbers.
	Calculate with both negative and positive numbers.
	Identify rules in number sequences and accurately follow and complete them.
Year 6	Unit 1 - Place value within 10,000,000
	Investigate properties of numbers up to 10,000,000.
	 Investigate the partitioning of larger numbers and use them in different contexts.
	• Develop understanding and use of number lines up to 10,000,000 - plot numbers on to partially completed
	number lines.
	Compare and order numbers and round them up to the nearest 1,000,000.
	 Investigate negative numbers, how they compare to positive numbers and their use in contexts.
	Unit 14 - Problem solving
	Solve problems about number, measurement and geometry.
	Give reasoning and select appropriate methods.
	Note: the unit enables teachers to assess confidence, ability to fluently apply understanding in different ways,
	using both mental and written methods, and to use the relationships between numbers to consider more flexible
Ct	or creative approaches.
Strand 2	Number Addition and Subtraction
ETFS	• Compare quantities up to 10 in different contexts, recognise when one quantity is greater than, less than or
	the same as the other quantity.
	Have a deep understanding of number to 10, including the composition of each number.
	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some
	number bonds to 10, including double facts.
	Subitise (recognise quantities without counting) up to 5.
	Verbally count beyond 20, recognising the pattern of the counting system
Year 1	Unit 3 Addition and subtraction within 10 (1)
	• Know count all and count on strategies (count all strategy is when all parts are added together to make a
	whole; 'count on' strategy asks children to start with a number and count on)
	Know that addition calculations can be performed in any order (commutativity or addition)
	 Know how to subtract by counting how many are left, break apart a whole and find the difference
	 Know how to subtract by counting now many are left, break apart a whole and mid the difference. Know how to model using concrete and nictorial representations: taking away cubes, crossing out nictures and
	counting back on a number-line
	 Can reason with subtraction facts and compare them to numbers using the < and > symbols
	Unit 7 Addition within 20
	 Know how numbers can be split apart into bonds, and how to represent numbers using manipulatives, as well
	as on number lines and number tracks.
	Unit 8 Subtraction within 20
	Know that addition and subtraction are the inverse of each other.
	Be able to see the patterns between each set of ten numbers.
Year 2	Unit 2 Addition and subtraction (1)
	Can talk about fact of equations, and relate addition and subtraction operations.
	• Can use the inverse of one operation to check calculations using the other operation.
	 Can 'make 10' to aid mental calculations.
	Introduction to the column method
	Unit 3 Addition and subtraction (2)
	 Can use the column method with addition and subtraction involving two 2-digit numbers.
	Use known number facts within mental calculations and use understanding of the inverse as a way to check
	their calculations. The final stage of children's learning allows the bar model to be used to represent a word
	problem, to allow children to self-identify the operation needed to complete the calculation.
	Unit 12 Problem solving and efficient methods
	Can use the four operations when problem solving.
	Can use the bar model
	• To use an efficient method and can justify their choice of methods, rather than simply using the column
	method for all questions.
Year 3	Unit 2 Addition and subtraction (1)

	Children explore additions and subtractions gradually, beginning with adding and subtracting 1s, until by the
	end of the unit they are adding and subtracting 2-digit numbers.
	Note: this unit prepares children to understand these calculations in formal methods, though the focus is on
	making decisions regarding the parts and wholes of numbers and on justifying the accuracy of mental methods
	Unit 3 Addition and subtraction (2)
	Explore calculations which do or do not require exchange developing fluency, accuracy and confidence
	 Apply checking strategies to decide whether an answer is reasonable or likely to be an error
Year 4	Unit 3 Addition and subtraction
·····	Can estimate and answer-check.
	Note: this unit provides essential preparation for beginning to add and subtract numbers with more than four
	digits.
Year 5	Unit 3 Addition and subtraction
	• Extend knowledge of addition and subtraction using formal methods for numbers with up to 5 digits.
	• Build confidence with problem solving and explore efficient methods for addition and subtraction calculations,
	including those that can be solved mentally
Year 6	Unit 2 Four operations (1)
	Develop fuency with efficient columnar written methods for addition and subtraction, without and with
	exclidinges.
	 Ose the columnar methods for multiplication of 4-digit numbers by 1- and 2-digit numbers. Develop understanding of the written methods for division
	 Develop understanding of the written methods for division. Unit 3 Four operations (2) Number – addition, subtraction, multiplication and Division.
	Becognise and find common factors and multiples
	 Know prime numbers are a special example of numbers with specific factors
	 Investigate the effects of squaring and cubing, linking this to knowledge about the dimensions of the
	namesake shapes.
	 Know the order of operations, investigate its effect on calculations and consider why it is important to have an
	agreed order.
	Know that brackets can affect the order of operations.
	Complete calculations, solve problems and diagnose mistakes in calculations.
	Solve mental calculations with small and large numbers.
	Use known number facts to solve problems involving related number facts
Strand 3	Number – multiplication and division
EYFS	Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how
Voor 1	quantities can be distributed equally.
Year 1	Onit 12 Multiplication
	• Onderstand multiplication as repeated addition, understanding the difference between equal and not equal arouns
	 Use knowledge of skin counting in 2s 5s and 10s and use concrete nictorial and abstract representations to
	find the total of multiple equal groups and of doubles
	 Solve simple multiplication word problems (more abstract problems)
	Unit 13 Division
	• Introduced to the concept of equal groups, represented in various concrete, pictorial and abstract ways,
	including the number line.
	• Be able to share a given number of objects equally across a given number of groups to find out how many are
	in each group.
	Solve word problems.
Year 2	Unit 5 Multiplication and division (1)
	Know what equal groups means.
	Be able to recognize groups that are not equal.
	Know what an array is (a representation of multiplication)
	• Understand what x means in context (repeated addition sentences and multiplication sentences are available
	as a reference).
	 Know what an equal bar model is. Has language such as (binos bioger or (build as more))
	Use language such as "times bigger" or "twice as many"
	Onit o with the calculate with two methods of division (grouping and charing)
	 Know now to calculate with two methods of division (grouping and sharing) Know the division sign (±)
1	

	• Know the importance of equal groups when dividing, and how to distinguish between the number of equal
	groups and the number in one group.
	Know that the bar model can be used to represent both grouping and sharing problems.
	Be able to make the link between division and multiplication facts.
	• Be able to match a multiplication sentence to the inverse division sentence, and to work out missing numbers
	based on facts from one of the operations.
	• Can use a 100 square to spot patterns for numbers that can be divided by 2, 5 and 10.
	• Make generalisations between different division facts and fact families, for example, all numbers that can be
	divided by 5 end in 0 or 5.
	Explore what it means for a number to be even and odd. T
	Start to recognise when numbers are odd by considering the ones digit.
Year 3	Unit 4 Multiplication and division (1)
	Know the Y3 times tables and be able to recall rapidly.
	Know the difference between equal sharing and equal grouping.
	Have a basic understanding of remainders.
	Use the bar model to represent simple one-step multiplication and division problems.
	Solve simple two-step problems that involve all of the four operations.
	Unit 5 Multiplication and division (2)
	Compare multiplication and division statements using and =.
	• Develop understanding of multiplication facts to link this knowledge to related multiplication and division
	calculations, for example, linking $2 \times 3 = 6$ and $2 \times 30 = 60$.
	• Become familiar with the expanded method for multiplication and the partition method for dividing (leading
	to remainders).
	Solve mixed multi-step problems and puzzles involving all four operations.
Year 4	Unit 5 Multiplication and division (1)
	• Can multiply and divide by multiples of 10 and 100, and then at multiplying and dividing by 0 and 1.
	Use visual representations to tackle multiplication and division questions.
	Unit 6 Multiplication and division (2)
	Explore the distributive and associative properties of multiplication.
	Use the compressed single line (standard) formal multiplication.
	• Solve more complex problems building on n objects related to m objects, find all solutions and notice how to
	use multiplication to solve questions.
	Use partitioning to divide 2- and 3-digit numbers by a 1-digit number.
	• Recap on the concept of a remainder after division, and move on to predicting whether a number will have a
	division and what the number could be if the remainder is given.
	Solve simple 2-step problems that involve all of the four operations.
Year 5	Unit 5 Multiplication and division (1)
	• Develop understanding of multiples and factors, recognising what they are and how they are found.
	Know about prime numbers and how they are different to composite numbers.
	• Investigate how to use factors, including prime factors, to investigate and manipulate numbers.
	• Investigate square and cube numbers, linked to concrete understanding of the shape namesakes.
	• Know how to identify and use the inverse operations to help solve and check calculations when calculating the
	multiplication and division of whole numbers by 10, 100 and 1,000.
	Unit 7 Multiplication and division (2)
	• Extend understanding of multiplication and division using a range of methods to calculate with up to 4-digit
	numbers, multiplying by 2-digit numbers or dividing by 1-digit numbers while dealing with exchange.
	Develop reasoning and problem solving skills while interpreting remainders.
Year 6	Unit 2 Four operations (1)
	• Develop fluency with efficient columnar written methods for addition and subtraction, without and with
	exchanges.
	Deepen understanding of the columnar method for multiplication of 4-digit numbers by 1- and 2-digit
	numbers and develop an understanding of written methods for division.
	Apply new learning to contextual word problems.
	Unit 3 Four operations (2) Number – addition, subtraction, multiplication and division
	Recognise and find common factors and multiples.
	Know that prime numbers are a special example of numbers with specific factors.
	• Investigate the effects of squaring and cubing, linking this to what they know about the dimensions of the
	namesake shapes.

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	• Know about the order of operations, investigating its effect on calculations and considering why it is important
	to have an agreed order.
	Know how brackets can affect the order of operations.
	Solve problems and diagnose mistakes in calculations.
	Using learnt methods to solve mental calculations with small and large numbers.
	Consider where mental methods are appropriate and where written methods are appropriate.
	Use number facts they already know to solve problems involving related number facts
Strand 4	- Fractions (including decimals and percentages KS2)
Year 1	Unit 14 Halves and quarters
	Find halves and quarters
	Apply skills learned to solve word problems
Year 2	Unit 10 Fractions
	• Can identify equal parts in a range of contexts, including shape, numbers, measurements and money.
	• Know fraction specific key language - numerator and denominator and can explain what each word means in context.
	• Know about unit fractions where the numerator is always one, focusing on halves, thirds and quarters.
	• Know about non-unit fractions and learn about the equivalence between them, particularly between 1/2 and 2/4.
	• Count up in quarters and halves on a number line, including crossing through whole number barriers.
rear 3	Unit 9 Fractions (1)
	 Introduction to fractions as numbers.
	• Use the bar model and the number line to make a whole out of two fractional parts.
	Explore tenths and fractions as a number
	Calculate a unit and non-unit fraction of a set of objects.
	Unit 10 Fractions (2)
	• Recognise and show (using diagrams) equivalent fractions with small denominators. I
	• Use a fraction wall to find equivalent fractions.
	 Order fractions on a number line and compare two fractions using bar models and the comparison signs < > or =.
	• Cab add and subtract two or more fractions with the same denominator, answering questions in more than
	one way and comparing the efficiency of each method.
	Solve fraction problems
	Find fractions of measures.
Year 4	Unit 8 Fractions (1)
	Introduction to hundredths and development of understanding of equivalent fractions
	• Explore fractions greater than 1 in the form of mixed numbers and improper fractions.
	Unit 9 Fractions (2)
	 Add and subtract fractions where the answers are greater than 1.
	Know that, as long as the denominators are equal, numerators can be added.
	• Explore subtracting a fraction from a whole number.
	• Find a fraction of an amount, working with divisions within times-tables learnt.
	Note: it is vital that children see the connection with division and are able to use visual representations, such as
	fraction strips, to represent a given problem.
	Unit 10 Decimals (1)
	Begin to write fractional amounts in decimal notation.
	Recognise a decimal point and the tenth and hundredth columns. A
	Can divide by 10 and 100 to result in answers containing decimal numbers.
	Unit 11 Decimals (2)
	• Find number bonds of tenths and hundredths to 1 and show how this links to their bonds to 10 and 100.
	Represent decimals on place value grids and use these grids to help compare decimals (with the same number of digits)
	UI UIGILS).
	 Ose magrants to understand the decimal equivalents of simple fractions, such as a name and a quarter. Pound docimals to the poprost whole number by considering their position on a number line.
Veer	Kound decimals to the nearest whole number by considering their position on a number line.
rear 5	On Confind on vivalent fractions by simplifying and expanding
	Can this equivalent fractions by simplifying and expanding.
	 Know that equivalent fractions represent the same number differently. Concentrate between relieved numbers of the same number of the same n
	 Can convert between mixed numbers and improper fractions and be able to use these in real-life contexts, using pictorial representations to demonstrate their understanding.
	using pictorial representations to demonstrate their understanding.

	, a menora / educiny mast mathematics
	Investigate and complete number sequences and compare and order two or more fractions.
	• Know that fractions represent division calculations and can use this, with the understanding of equivalent
	fractions, to find efficient methods of solving division calculations.
	• Investigate how remainders in division calculations can be represented as fractions and how this can be used in context to answer real-life problems accurately.
	Unit 9 Fractions (2)
	Add and subtract related fractions by finding a common denominator.
	Unit 10 Fractions
	Can multiplying fractions and mixed numbers by whole numbers.
	Can use visual and written strategies to show fractional amounts.
	Efficiently solve problems for fractions as operators.
	Unit 11 Decimals and percentages
	Develop fluency with common decimals, fractions and percentages.
	Know a range of strategies to convert between equivalent decimals, percentages and fractions.
	Unit 12 Decimals
	Can use formal methods of addition and subtraction to numbers with up to three decimal places.
	Can multiply and divide decimal numbers by 10, 100 and 1,000.
	Efficiently solve problems with decimal numbers.
Year 6	Unit 4 Fractions (1)
	Can compare, add and subtract unrelated fractions using common denominators and formal methods.
	Unit 5 Fractions (2)
	Can multiply a proper fraction by a whole number and find a fraction of an amount.
	Problem solve in fractions using the four operations.
	Unit 7 Decimals
	Can calculate with decimals.
	• Can multiply and divide decimals by multiples of 10, 100 and 1,000; convert between fractions and decimals;
	and multiply and divide decimals by whole numbers.
	Note: the learning from this unit will support children in calculating with measures, particularly converting
	between standard units, and it will support understanding of fractions, decimals and percentages, and now they
	are related.
	Onit o Percentages
	Annu strategies to servert between percentages of amounts.
	Apply strategies to convert between percentages, decimals and nactions.
Strand 5	Geometry – properties of shape
FYES	Investigate 2D and 3D shapes
LIIJ	Making simple patterns
	Exploring more complex patterns
	Composing and decomposing shapes
Vear 1	Unit 5 2D and 3D shapes
icui 1	Name the different shapes and identify the features that determine how they are classified
	Can make distinction between 2D and 3D shapes
	 Identify individual shapes within composite shapes (where several shapes are joined together) and explore the
	relationship between 2D and 3D shapes.
	 Explore sequences using shapes, and to identify patterns.
Year 2	Unit 9 Properties of shapes
	• Can describe and sort shapes based on the shapes' mathematical properties, using the correct terminology.
	Can describe and categorise shapes based on their number of sides, vertices, edges and faces.
Year 3	Unit 12 Angles and properties of shapes
	Be introduced to right angles.
	Explore vertical and horizontal lines of symmetry.
	Describe and construct 3D shapes.
	Know that angles are a measure of a turn.
	• Know that a right angle is a quarter turn, two quarter turns make a half turn, three right angles make a three-
	quarter turn and four right angles make a full turn.
	• Know that angles less than a right angle are called acute angles and angles greater than a right angle (but less
1	than two right angles) are called obtuse angles

	• Know the names of 2D shapes - triangles (right-angled and isosceles), quadrilaterals (square, rectangle,
	rhombus, trapezium, parallelogram and kite), pentagons, hexagons and octagons.
	Know the names of 3D shapes: cube, cuboid, pyramid, prism, cylinder, sphere and cone.
Year 4	Unit 15 Geometry – angles and 2D shapes
	 Know the following angles - acute, obtuse and right angles.
	 Use right angles as a way of recognising when angles are acute or obtuse.
	Compare and order angles in ascending and descending order.
	• Know that shapes can be regular or irregular and will discover what this means and how it relates to the angles
	they know.
	 Know about different types of triangles and different types of quadrilaterals.
	 Deduce facts about shapes and solve shape based problems and puzzles.
	• Develop understanding of symmetry, both inside and outside of shapes, can complete symmetrical shapes and
	patterns.
Year 5	Unit 13 Geometry – properties of shapes (1)
	Can measuring using a protractor.
	• Can make predictions, check calculations and discuss the properties of shapes and angles
	Unit 14 Geometry – properties of shapes (2)
	 Use rulers and protractors to identify angles and properties of shapes
	• Identify parallel and perpendicular lines as well as 2D and 3D shapes
	 Predict results based on prior knowledge before proving them with the apparatus.
Year 6	Unit 13 Geometry – properties of shapes
	Further develop understanding of properties of shapes.
	• Accurately draw shapes using knowledge of angles and properties in shapes and use of a protractor
	Can reason with shapes and explore different methods.
Strand 6	Geometry – position and direction
Year 1	Unit 15 Position and direction
	 Can describe rotations as guarter, half, three-guarter and whole turns
	Can combine turns with lateral movement to give and follow route instructions
	 Can describe the position of an object in relation to other objects using the words 'above' 'below' 'left'
	'right' and 'between'.
Year 2	Unit 11 Position and direction
	Can describe degrees of turn and their knowledge of 2D shapes
Year 4	Unit 16 Geometry – position and direction
	 Know what a coordinate grids is and use them to describe positions of points and translations from one point
	to another.
Year 5	Unit 15 Geometry – position and direction
rear 5	 Know about the position and orientation of shapes and how to reflect and translate points and shapes using
	coordinates
Year 6	Unit 6 Geometry – position and direction
i cui o	Know about coordinates in all four quadrants
	Can combine knowledge of properties of shapes and coordinates to reason and solve problems involving
	shapes on a coordinate grid
	 Know about reflections and translations on a coordinate grid
Strand 7	- Measurement
EVES	Time – My day
Vear 1	Unit 10 Introducing length and height
rear 1	Can compare and measure the height and length of objects using non-standard and standard units of
	measure
	Can compare and measure and know the importance of aligning starting points
	 Know the relationship between number lines and scales on a ruler, use this understanding to calculate di-
	fferences in length.
	Ise key language such as longer longest shorter shortest taller and tallest when comparing length and
	height
	Unit 11 Introducing weight and volume
	Know the use of uniform non-standard units (such as cubes and cups) to measure weight and capacity
	 Evaluate use of annorm non-standard units (such as cubes and cups) to measure weight and capacity. Evaluate and nart-mart relationships: for example, if a sourcenan holds 10 cups of milk and 4 cups are.
	noured out how much is le- in the pan?
	Unit 17 Time
1	

	• Strengthen understanding of the hands of a clock, including the second hand.
	Develop understanding of units of measurement of time (hours, minutes and seconds).
	• Use the following vocabulary to develop their understanding of durations of time and the ordering of events in
	time: 'before', 'after', 'yesterday', 'today', 'tomorrow', 'day', 'week', 'date', 'month', 'year', 'calendar', 'faster
	of slower, longer of shorter and earlier of later.
	Ose number lines to calculate simple addition and subtraction word problems involving time.
	Becognising coins and banknotes, and understanding their relative and absolute values
	 Develop familiarity with money in a range of everyday settings.
	 Develop understanding of money as a measurement – the value of a coin or note depends on both the
	numerical value assigned to it, and the unit (pounds or pence) that is involved.
Year 2	Unit 4 Money
	Can add and subtract money using part-whole models and bar models
	• Find the most efficient counting strategy, such as counting on from the coin or note of highest value to find
	the total.
	Use pounds, pence and notes and pounds and pence together.
	Unit 8 Length and height
	• Measure own height and make comparisons with others' heights - extended to looking at heights and lengths
	more generally.
	Use simple standard units and reading a simple scale accurately
	Unit 13 Time
	Tell and write the time to five minutes, including quarter past and to the hour.
	• Link intervals of time to the number line, and know the number of minutes in an hour, and hours in a day.
	• Use the number line to understand start and end times, and the interval of time between the two.
	• Solve problems including word problems, and comparing and sequencing questions
	Onit 14 weight, volume and temperature
	Accurately measuring mass, volume, capacity and temperature using standard measurement.
	 Be able to make chains of mixed reasoning about measures Use of different scales (such as scales that increase in 2s. 5s and 10s) and how to work out the value of each
	increment on the scale
Year 3	Unit 6 Money
	 Convert amounts such as 720p into pounds and pence and vice versa.
	• Use x pounds and y pence or fx and yp.
	Solve addition and subtraction problems relating to money by adding separately and convert for amounts
	bridging a pound.
	Unit 8 Length
	• Know how mm, cm and m relate to one another and convert between single and mixed units.
	• Compare, order, add and subtract measurements of length and calculate the perimeter of 2D shapes.
	Unit 11 Time
	• Develop a deeper understanding of the length of a year, a month, a day, an hour, a minute and a second
	Solve problems involving reading and measuring time.
	Unit 13 Mass
	Know how to measure and read a scale, focusing upon unmarked intervals.
	Compare and order different masses.
	Add and subtract different amounts, using a range of strategies.
	Apply knowledge to real-life problems. Init 14 Capacity
	 Interpret a range of scales and apply knowledge of place value and the number system
	 Compare and order measurements, and convert between millilitres and mixed units of litres and millilitres.
	 Use knowledge of four operations to solve problems involving capacity
Year 5	Unit 6 Measure – area and perimeter
	 Know simple formulae such as perimeter = 2 × (length + width) and Area = length × width.
	Be able to work inversely and use a systematic approach to find rectangles with a given perimeter or area.
	Unit 16 Measure – converting units
	• Solve problems using conversion between units (both metric and imperial), including conversion and scaling of
	amounts; and timetables, including converting between units of time when the conversion does not result in a
	whole number answer.
	Unit 17 Measure – volume and capacity

	Know how to measure and calculate the area of a shape
	Be able to estimate the amount of space taken up by an object and the amount a container can hold.
Year 6	Unit 10 Measure – Imperial and metric measures
	Can convert between units and apply conversions to problem-solving contexts.
	 Recap on equivalences of metric units and work with numbers with up to two decimal places.
	• Can use reasoning to describe when a number should be multiplied or divided to convert and by how much.
	• Know the relationship between miles and kilometres, and how to apply the 5 : 8 ratio to convert between
	them.
	Solve problems with imperial measurements
	Unit 11 Measure – perimeter, area and volume
	 Explore the relationship between the area and perimeter of different 2D shapes.
	Can generate formulae for the area of triangles and parallelograms and the volume of cubes and cuboids and
	use them to calculate areas, volumes and missing lengths.
	• Apply knowledge of perimeter, area and volume to solve problems, in particular when calculating unknown
	lengths, perimeters and areas of composite rectilinear shapes.
Strand 8	- Statistics
Year 2	Unit 7 Statistics
	• Interpret charts and diagrams using knowledge of addition and subtraction, counting and multiplication
	involving 2s, 5s and 10s.
	Know symbols that represent one or more pieces of data and tally marks for counting
Year 3	Unit 7 Statistics
	Know and can read pictograms, bar charts and complex tables.
	Use keys where one symbol represents more than 1.
	• Apply calculation and reasoning skills, including addition and subtraction, and counting in multiples of 2, 5 and
	10.
Year 4	Unit 14 Statistics
	Read pictograms, bar charts and tables
	• Be able to use a wide range of scales and interpret quarter symbols in pictograms, as well as reading from bars
	which are a guarter of the way between two marked points on a bar chart.
	Review data presented in line graphs and the distinction between continuous and discrete data.
	• Solve multi-step problems, which use information presented in a range of charts and tables.
Year 5	Unit 4 Graphs and tables
	 Interpret line graphs that display discrete and continuous data, interpret dual line graphs.
	Make, complete and interpret two-way tables, which break down data into more categories.
Year 6	Unit 15 Statistics
	Learn what the mathematical mean is and how to calculate it.
	• Consider when to use the mean, for example when comparing sets of data of different sizes.
	 Know what a pie chart is and how to interpret one.
	• Compare tally charts and bar charts and learn when a pie chart is the best way to display data. C
	 Interpret and create line graphs.
Strand 9	- Algebra
Year 6	Unit 9 Algebra
i cui o	Generalise mathematical concepts and problems, representing them algebraically as expressions, formulae
	and equations
	Bepresent rules found using nictures and abstract written recording using letters to represent variables within
	a sequence
	 Follow a number nattern find outputs from a given input number and use a rule to find a specific value and
	answer
	 Investigate and record formulae for finding values linked to mathematical concents such as the perimeter and
	area of 2D shapes.
	 Solve equations using algebraic notation one-step, two-step, where there is one solution, and equations with
	multiple solutions
Strand 10	0 – Ratio and proportion
Year 6	Unit 12 Ratio and proportion
	Recognise describe and compare ratios and to represent them in different ways
	Use ratio notation to record and interpret ratios
	Know how ratios relate to fractions
	- Know how ratios relate to fractions.

- Calculate amounts from a given ratio, including totals and parts of groups, and find the difference between unequal parts of a group.
 - Solve word problems and 2-step problems involving ratio and proportion.
 - Interpret scales on plans and maps, using them to calculate actual size or distance.
 - Enlarge shapes by a given scale factor, know whether two shapes are similar and use calculations to deduce the scale factor.