Mathematics Progression Map

Vasa	Line it 4	Linite O	Harita O	Limits A	Line in F	Lineit C	11-1-7	Line in O	Limit O	Limit 40	11-1-14	11-:- 12	11-1-12	11	11-:- 45	11:+ 4.0	11:+ 4.7	Limit 40	Hait 10
Rec	Unit 1 Early Mathematic al experiences	Pattern and Early Number	Unit 3 Numbers within 6	Unit 4 Addition and subtraction within 6	Unit 5 Measures	Unit 6 Shape and sorting	Unit 7 Calendar and Time	Numbers withing 10	Addition and subtractio n within 10	Numbers within 15	Unit 11 Grouping and sharing	Numbers within 20	Unit 13 Doubling and halving	Unit 14 Shape and pattern	Unit 15 Addition and subtractio n within 20	Unit 16 Money	Unit 17 Measures	Unit 18 Depth of numbers within 20	Depth of numbers beyond 20
1	Numbers to 10	Addition and subtraction within 10	Shape and patterns	Numbers to 20	Addition and subtraction within 20	Time	Exploring calculatio n strategies within 20	Numbers to 50	Addition and subtractio n within 20	Fractions	Measure, length and mass	Numbers 50 to 100 and beyond	Addition and subtractio n (applying strategies)	Money	Multiplicat ion and division	Measures (2): Capacity and volume			
2	Number within 100	Addition and subtraction of 2-digit numbers	Addition and subtraction word problems	Length	Graphs	Multiplicait on and division: 2, 5 and 10	Time	Fractions	Addition and subtractio n of 2- digit numbers (regroupin g and adjusting)	Money	Faces, shapes and patterns; lines and turns	Numbers within 1000	Measures: Capacity and volume	Measures: Mass	Exploring calculation strategies	Multiplicat ion and division: 3 and 4			
3	Number sense and exploring calculation strategies	Place value	Graphs	Addition and subtractio n	Length and perimeter	Multiplicat ion and division	Deriving multiplicat ion and division facts	Time	Fractions	Angles and Shape	Measures	Securing multiplicat ion and division	Exploring calculatio n strategies and place value						
4	Reasoning with 4-digit numbers	Addition and subtractio n	Multiplicat ion and division	Interpreti ng and presenting data	Securing multiplicat ion facts	Fractions	Time	Decimals	Area and perimeter	Solving measure and money problems	2-D Shape and Symmetry	Position and Direction	Reasoning with patterns and sequences	3D shape					
5	Reasoning with large whole numbers	Problem solving with integer addition and subtraction	Line graphs and timetables	Multiplicat ion and division	Perimeter and area	Year 4 2-D shape learning	Fractions and decimals	Angles	Fractions, decimals and percentag es	Transform ations	Calculatin g with whole numbers and decimals	2-D and 3- D shape	Volume	Problem solving					
6	Integers & Decimals	Multiplicat ion and division	Calculatio n problems	Fractions	Missing angles and lengths	Coordinat es and shape	Fractions	Decimals and measures	Percentag es and statistics	Percentag es and statistics	Proportio n problems								



Curriculum Map: Reception

	Week 1 We	ek 2 Week 3	Week 4	Week 5	Week 6	Week	7	Week 8	Week 9)	Week 10	Week 11
⊑		thematical iences	Pattern and early number		Numbe	Numbers within 6		Addition and subtraction Measur within 6		es Shape and		d Calendar and time
Autumn	Classifying object attribute Matching equal Comparing objects Ordering objects	and unequal sets	Recognise, de and extend co size patterns Count and rep numbers 1 to sestimate and counting	lour and resent the	One more Order num Conservati within six	or one fewer bers 1 – 6		Explore zer Explore addition and subtraction	compare, discuss an	d	Shape an sorting	Days of th week, seasons Sequence daily events
	Week 1	Week 2	Week 3	Week	4 V	Veek 5	١	Week 6	Week 7		Week 8	Week 9
5	Numbers within 10		Addition and subtraction within 10	Nur	Numbers within 15			Grouping and sharing				Doubling an halving
Spring	Count up to ten Represent, orde numbers to ten One more or fev or less	r and explore	Explore addition as counting on and subtraction as taking away	recognise represent	ations d explore num		• Gro	ups uping into fiv	aring in equal res and tens ween grouping	•Re ord exp nur •On	ects present, der and plore mbers to 15 e more or	Doubling and halving Relationship between
	Week 1	Week 2	Week 3	Week	4 V	Veek 5	٧	Veek 6	Week 7		Week 8	Week 9
_	Shape and pattern		I subtraction in 20	Mone	у	Meas	ures		Depth of num	bers	within 20	Numbers beyond 20
Summer	Describe and sort 2-D and 3-D shapes Recognise, complete and create patterns	Commutativity Explore addition Compare two ar Relationship bet and halving	nounts	Coin recognition and value Combinat to total 20 Change from 10p	on •Com •Com •Com •Estir Ieng	cribe capacit npare volume npare weight mate, compa ths	es s	d order	Explore number Recognise and Apply number, s measures know Count forwards	extend shape ledge	d patterns and	One more on less Estimate and count Grouping and sharing



The Dimensions of Depth - Conceptual Understanding, Language and Communication and Mathematical Thinking - underpin all aspects of the curriculum; problem solving is at the heart and is embedded in all units.

Week 5

Week 4

Week 3



Week 11

Week 12

Week 10



 Minutes in an hour and hours in a day

Curriculum Map: Year 2

Week 7

Week 8

Week 9

Week 6

Addition and

subtraction word

		numbers	problems			and iv
Autumn	partition, compare and order numbers to 100 •Explore patterns including, odds and	Apply number bonds to add and subtract Represent and explain addition and subtraction of two 2-digit numbers. Add three 1-digit numbers	Introduction to bar models as a representation Create, label and sketch bar models	Draw and measure lengths in centimetre: Use <, > and = to compare and order lengths in metres and centimetres	interpret: pictogram	10 by skip counting •Relate the 2 times table to doubling •Explore representations of multiplication and division •Commutativity
	Week 1 Week 2	Week 3 Week		eek 6 Week 7	Week 8	Week 9 Week 10 Week 11
	Time	Fractions	Addition an subtraction of 2 numbers	-	ney	Face, shapes and patterns; lines and turns
Spring	Tell the time on an analogue clock: quarter past, quarter to and five minute intervals Calculate durations of time in minutes and seconds Sequence daily events	Part-whole relationship Fractions as part of a whole or a whole set Relate to division Equivalent fractions	Illustrate, represent explain addition and subtraction involving regrouping including Ten', 'Round and and near doubles strategies	d notes g •Use £ and p g 'Make •Add and sub	accurately tract amounts	Explore, sort and describe 2-D shapes Lines of symmetry in 2-D shapes Identify 2-D shapes on 3-D shapes Compare and sort 2-D and 3-D shapes Use language to describe position, direction and rotation to follow a route

	Week 1	Week 2 Week 3	Week 4	Week 5 Week 6	Week 7	Week 8	Week 9
Jer	Numbers within 1000	Measures: Capacity and volume	Measures: Mass	Exploring calculation strategies	Multiplica	tion and division	: 3 and 4
Sumn	Represent in different ways Compare Tompare	Read and measure temperature Estimate, measure and understand litres and millilitres Compare and order capacities	Weigh and compare masses in kilograms and	Apply addition and subtraction strategies to solve equations Illustrate and explain addition and subtraction using column method.	•Relate 4 times ta	d division facts for 3 able to doubling the ret and represent us	2 times tables



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Recognise inverse relationship





Curriculum Map: Year 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
⊑	Number	s to 10		subtraction in 10	Shape an	d patterns	Numbers to 20		Addition and subtraction within 20	
Autumn	One more and	Represent, compare and explore numbers within 10 One more and one less Doubling and halving		Represent and explain addition and subtraction Commutativity Addition and subtraction facts		Identify, describe, sort and classify 2-D and 3-D shapes Investigate repeating patterns Use and follow instructional and positional language		sent, compare abers to 20 halving one less	Represent and explain addition and subtraction strategies including 'Make Ten' Use known facts to add an subtract	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
ng	Time		Exploring calculation strategies within 20		rs to 50 Addition and s within		Eractions		Measures: Length an mass	
Spring	Read, write and tell the time to o'clock and half past on analogue clock Sequencing daily activities Whole and half turns linked to time		Model, explain and choose addition and subtraction strategies	2-digit number sequence, exp Count in 2s, 5s Describe and number patter	olore, compare. s and 10s complete addition and s equations -Apply 'Make 1		en' strategy to quantify and	 Identify ¹/₂ and ¹/₄ of a shape or object Find ¹/₂ and ¹/₄ of a quantity 	lengths and mass using of and kg Doubling and halving	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
L	Numbers 50 to 100 and beyond		Addition and subtraction		Money		Multiplication and division		Measures: Canacity and	
Summer	Read, write, represent, compare and order numbers to 100 One more / fewer, ten more / fewer Identify number patterns		Explore addition and subtraction involving 2-digit numbers and ones Represent and explain addition and subtraction with regrouping Investigate number bonds within 20		Name coins and notes and understand their value Represent the same value using different coins Find change		Share equally into groups Doubling Link halving to fractions Add equal groups Explore arrays		Compare capacities, volume and lengths Explore litres Apply understanding of fractions to capacity	



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Curriculum Map: Year 3

	Week 1 Week 2 Week 3 Number sense and exploring calculation strategies	Week 4 Week 5 Place value	Week 6 Graphs	Week 7 Week 8 Week 9 Addition and subtraction	Week 10 Week 11 Length and perimeter
Autumn	Read, write, order and compare numbers to 100 Calculate mentally using known facts, round and adjust, near doubles, adding on to find the difference Derive new facts from a known fact	Read, write, represent, partition, order and compare 3-digit numbers Find 10 and 100 more or less Round to the nearest multiple of 10 and 100	Collect, interpret and present data using charts and tables	Develop and use a range of mental calculation strategies Illustrate and explain formal written methods – column method	Measure, draw and compare lengths Add and subtract lengths Calculate perimeter
	Week 1 Week 2 Week 3	Week 4 We	ek 5 W	eek 6 Week 7 Week 8	Week 9 Week 10

	Delive new la	cis iloii a kilowii		multiple of 10 and 1	00 tab	les				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	Multiplication	and division	Deriving	multiplication ar facts	nd division		Time		Fractions	
Spring	Multiplicative s groups/parts,	4, 5, 6, 8 and 10 structures: equal change and orrespondence	Multiply a 2- correspondi	I divide by 10 and 10 digit number by 2, 3 ng division situation it by a 1-digit	, 4, 5 and		lculate and	Fractions a and as a new architecture	relationships is part of a whole oumber act, compare and o	
	Week 1	Week 2	Weel	k 3 Week	4 V	Veek 5	Week 6	Week 7	Week 8	Week 9

Week 1 Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
Angles and shap	e		Measures		Securing multiplication and division		calculation d place value
Identify angles including right angle as a quarter of a turn Identify and draw parallel and perpendicular.		Read scales with mass and volume Weigh and comp	B		Recall and use multiplication and division	Add and subtract Find 10, 100 and less	d 1000 more or



shapes

. Measure the perimeter

Draw/make, classify and compare 2-D and 3-D

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Estimate mass and capacity

mixed units



facts for 6 and Order and compare beyond 1000

Round numbers

8 times table



Curriculum Map: Year 4

	Week 1	Week 2	Week 3	Week 4	Week	5 Wee	k 6	Week 7	Wee	ek 8	Week 9	Week 10	
	Reasoning v numb		Add	ition and sub	otraction		Multiplic	ation and	division	0	Discrete and continuous data		
Autumn	4-digit place val write, represent compare Find 10, 100 or less Round numbers nearest 10, 100	, order and 1000 more or s to the	subtract Illustrate and	trategies includ	three 1-digi in appropriate addition and ies including column uping three 1-digi •Mental multi using place facts			ve property including multiplying igit numbers ultiplication and division strategies ce value and known and derived Itiplication and division			Read, interpret and construction pictograms, bar charts and time graphs Compare tables, pictograms and bar charts		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week	7 W	eek 8	Week 9	Week	10 Week 11	
	Securing multiplication facts		Fract	ions		Time					Area and perimeter		
Spring	Identify and explore patterns in multiplication tables including 7 and 9	fractions Equivalent from the Represent from the Add and sub-	actions actions greater r fractions	than one as mi	digital, 12- hour and occurred than one as mixed number above the the same denominator digital, 12- hour and occurred the town of the thing that the same denominator of the sa			Decimal equivalents to tenths, quarter and halves Compare and order numbers with sa number of decimal places Multiply and divide by 10 and 100 including decimals			and rectilinear figures		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week f	s v	Neek 7	Week	a w	eek 9	Week 10	
ler	Solving measures and money problems				Shape and symmetry			Position and direction and sequence		n pattern 3-D shan			
Summer	Convert units of Select appropria Use strategies t and improveme tables, working	ate units to mea to investigate po nt, organising u	roblems: trial	Compare ar	mpare and ord nd classify 2-D s of symmetry	shapes	• De and usi cod • De	scribe d plot	Place va systems	sequences	number	Use understanding of 3-D shapes Identify 3-D shapes from 2-representations	



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million and subtract integers timetables including · Round numbers within one million to the nearest multiple Illustrate and explain the calculating intervals written method of column of powers of ten Read Roman numerals up to Select efficient calculation strategies Week 2 Week 3 Week 5 Week 6 Week 1 Week 4 Fractions and decimals Angles •Read, write, order and compare decimals Classify, compare and order . Round decimals to the nearest whole number angles Measure a draw angles with Represent, identify, name, write, order and compare fractions (including improper and a protractor whole number Understand and use angle mixed numbers) facts to calculate missing equivalence Calculate fractions of amounts

Week 4

Week 3

Integer addition and Reasoning with large Line graphs and Perimeter Multiplication and division whole integers subtraction and area Use rounding to estimate Complete, read and interpret Identify multiples and factors Investigate · Read, write, order and compare numbers up to one •Use a range of mental data presented in line graphs Investigate prime numbers area and Read and interpret perimeter of calculation strategies to add · Multiply and divide by 10, 100 and 1000 rectilinear (integers) Derived facts shapes Estimate Illustrate and explain formal multiplication and area of nondivision strategies such as short and long •Use a range of mental calculation strategies rectilinear shapes Week 7 Week 8 Week 9 Week 10 Fractions and percentages Transformations Add, subtract fractions with denominators that
 Coordinates in all four are multiples of the same number quadrants · Multiply fractions (and mixed numbers) by a Translation and reflection Calculate intervals across · Explore percentage, decimal, fractions zero as a context for negative numbers angles Week 10 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Week 9 Converting units of Calculating with whole numbers and 2-D and 3-D shape Volume Problem solving · Mental strategies to add and subtract · Classify 2-D shapes and Negative numbers and Use cube Convert between metric units involving decimals reason about regular and numbers calculating intervals across of length, mass and capacity · Formal written strategies to add, subtract and and notation irregular polygons zero multiply involving decimals Properties of diagonals of Estimate Calculating the mean Know and use approximate Multiply and divide by 10, 100 and 1000 quadrilaterals volume Interpret remainders conversion between imperial involving decimals Classify 3-D shapes Convert Investigate numbers: units of Derive multiplication facts involving decimals •2-D representations of 3-D consecutive, palindromic, volume multiples

Curriculum Map: Year 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 5



Mathematics Mastery

Week 1

Week 1

and units of time

and metric

measure

Week 2

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Mathematics Mastery

Curriculum Map: Year 6

The first two units need to be taught before any other units as these cover place value and the four operations and ensure firm foundations for the rest of the learning. The remaining units can be taught in any order with the following caveats:

- The first five lessons of the first Fractions unit should be taught prior to learning on calculating with fractions.
 The Proportion problems unit should only be taught after the units on fractions, decimals and percentages.

1) Integers and decimals (10 lessons)	2) Multiplication and (15 lessons		3) Calculation po (10 lesson		4) Fractions (10 lessons)		5) Missing angles and length (5 lessons)
Represent, read, write, order and compare numbers up to ten million Round numbers, make estimates and use this to solve problems in context Solve multi-step problems involving addition and subtraction	Identify and use propertinumber, focusing on prin Mutilply larger integers a numbers using a range of Divide integers by 1-diginumbers representing reappropriately Illustrate and explain for multiplication and division.	mes and decimal of strategies it and 2-digit emainders mal	Understand the use Use knowledge of the operations to carry or calculations Generate and description in the carry of the c	ne order of out ribe linear mber ally	Deepen understanding of equivalence Order, simplify and comp fractions, including those than one Recall equivalence betwee common fractions and defined decimal quotients us short division Add and subtract fractions.	een ecimals	Compare and classify a range of geometric shapes Use angle facts to find unknown angles
6) Coordinates and shapes 7) Fractions 8) Dec (10 lessons) (5 lessons)		-,	nals and measure (15 lessons)		entage and statistics (10 lessons)	10) Pi	roportion problems (10 lessons)
Draw a range of geometric shapes using given dimensions and angles Describe, draw, translate and reflect shapes on a co-ordinate plane Recognise and construct 3-D shapes Name and illustrate parts of a	Represent multiplication involving fractions Multiply two proper fractions Divide a fraction by an integer	between s measures money and imperial un • Calculate parallelogi • Calculate,	Use, read, write and convert between standard units of measures; length, mass, time, money and volume as well as mperial units Calculate the area of carallelograms and triangles Calculate, estimate and compare the volume of cuboids Calculate the mean Candal temperature of carallelograms and triangles Calculate the mean Construct and interpret lines graphs and pie charts Compare pie charts		Use fractions to express proportion Identify ratio as a relationship between quantities and as a scale factor Unequal sharing involving ratio		



- underpin all aspects of the curriculum; problem solving is at the heart and is embedded in all units. © Mathematics Mastery 2019

