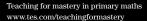
Primary maths whole school plan – Mathematics Mastery





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A whole school plan for primary maths from Mathematics Mastery

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Introduction

The Mathematics Mastery schemes of work provide recommended planning sequences for teaching maths from Year 1 to Year 6. They are published as part of a curriculum for primary maths on TES, which also includes quality-assured classroom resources mapped to the key mathematical concepts studied at primary school.

Sets of resources by maths topic can be found here: www.tes.com/mathematicsmastery

A detailed explanation of subject knowledge for primary maths is presented for teachers here: www.tes.com/teachingformastery

Mathematics Mastery is a professional development programme for teachers. We work in partnership with schools to embed a mastery approach to mathematics teaching, aiming to improve pupils' understanding, enjoyment and attainment in mathematics. Our approach is based on research and internationally recognised practice, inspired by Singapore and Shanghai. Our key principles underpin all that we do. We have high expectations for every child. We teach fewer topics in greater depth. We emphasise problem-solving and conceptual understanding.

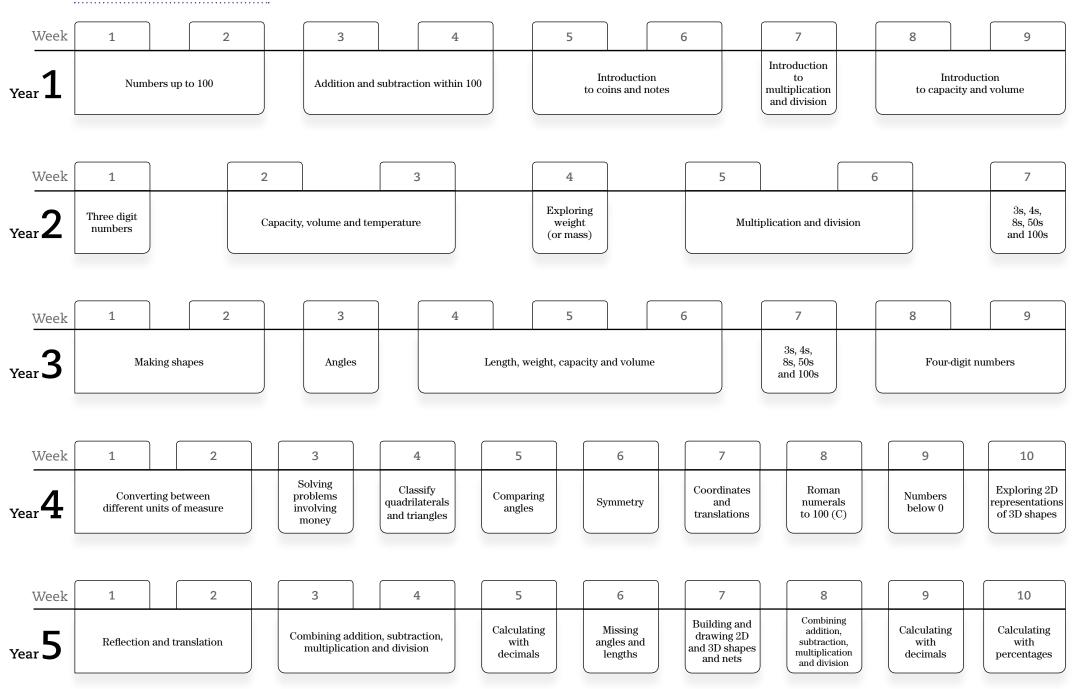
${\color{red}\textbf{AUTUMN term}} \ - \texttt{A whole school plan for primary maths from Mathematics Mastery}$

Week	1		2	3	4	1	5		6		7		8	9)	10	11
Year $oldsymbol{1}$		Numbers	s up to 10		Addition and subtraction within 10				ecognising D and 3D shapes		Turns				and subtraction rithin 20		
Week	1	2		3	4	5	;	6		7		8	9		10	11	12
Year 2	Two-digit	numbers		Two	o-digit addi	ition and sub	traction			Units	s of length		Introducto graj	1 1 1	Aultiplica	ation and division	2s, 3s, 5s and 10s
Week	1		2	3	4	1	5		6		7		8	9		10	11
Year 3	Addition ar with	ad subtract nin 100	ion	Adding and subtracting money		Three-digit n	umbers	Us	sing grap	ohs	Thre	ee-digit add	tion and :	subtraction		Length	and perimeter
Week	1		2	3		4		5		6		7		8		9	10
Year 4	Four di	git number	rs	I	Four-digit a	addition and	subtractior	1		Short mu	ltiplicatio	n Fact pai		6s, 7s, 9s, 25s and 1000s	5		s, pictograms, hhs and tables
Week	1		2	3		4		5		6		7		8		9	10
Year 5	At least a mil		Introduction to negative numbers		on and sub of number nore than	's	;	Factors, multiples and prime numbers		of tv	Multiplicat wo-digit n d short di	umbers	s	onverting metr imple imperial Further conve etween units o	units	Perimeter and area	Exploring capacity and volume
Week	1		2	3		4		5		6		7		8		9	10
Year 6	Positive integers	Roma	00s, 1,000s in numerals 1,000 (M)	Common factors and multiples			multiplicat			Addition ar subtractio of number of any size	n 's	Calculatio with fou operation		Missing ang and length Circles		Negative numbers Classifying shapes	Coordinates, translation and reflection

${f SPRING \ term}\ -$ A whole school plan for primary maths from Mathematics Mastery

Week	1	2		3	4		5	6		7		8		9	10
Year 1	Introdu	ction to time	subtr	ion and raction nin 20		Numbers up to 40 or 50		Add	ition and sub within 40 or			atroduction to halves and quarters		oduction length	Introduction to weight (or mass)
Week	1	2	3	4	5	6	7		8	9	1	0	11	12	13
Year 2	Telling th	ne time	Two-digit ac			anding pounds nd pence	Shape	es and pat	tterns	Rotation	Intro	oduction to fra	actions		git addition and otraction
Week	1	2		3	4		5	6		7		8		9	10
Year 3	3s, 4, 8s,	50s and 100s		Exploring	g multiplicatio	n and division			logue and sital time	Romai numera on the clock	to or	atroduction comparing, rdering and equivalent fractions	to ad sub	oduction Iding and tracting actions	Introduction to finding fractions of an amount
Week	1	2	3		4	5	6		7	8	3	9		10	11
Year 4	6s, 7s, 9s, 25s and 1,000s	Common equivalent fractions	Add and subtract fractions w the same denominat	t vith e Fra an	ctions of amount	Compare, order and simplify fractions	Convertir betweer units of tir	ı		Introduction	to decima	ls		Area by counting shapes	Perimeter of simple shapes
Week	1	2		3		4	5		6			7	8		9
Year 5	Compare, order, and find equivalent fractions	Four operations with decima			neasuring, con finding angles		Introduction to adding and subtracting fractions with different denominators		Multiply prope and mixed nu whole nur Rates and so fractio	mbers by mbers caling by		duction to entages		Line graphs a	nd tables
Week	1	2	3		4	5	6		7	8	3	9		10	Taught through other units
Year 6		otracting fractions t denominators	Multiply and divid fractions	le S	olving probler ratio and pr		Calculatin with decimals	5	Solving problems involving converting between units of time	Area and vo	olume	Calculating with percentage	g li an	Pie charts, ine graphs d the mean average	Understanding algebra

${\color{red}\textbf{SUMMER term}} \ - \textbf{A whole school plan for primary maths from Mathematics Mastery}$



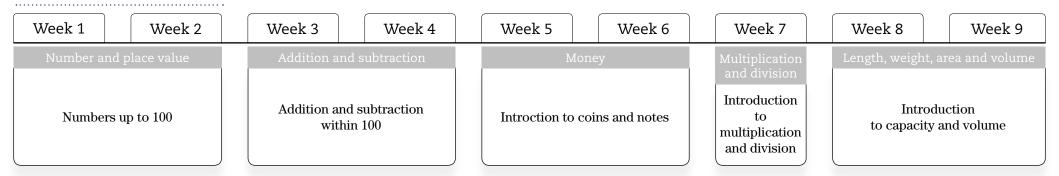
Year 1 Autumn

Week 1 Week 2 Week 3	Week 4 Week 5 Week 6	Week 7 Week 8	Week 9	Week 10 Week 11
Number and place value	Addition and subtraction	Geometry	Number and	Addition and subtraction
		Recognising	place	
Numbers up to 10	Addition and subtraction within 10	2D and Turns 3D shapes	Numbers up to 20	Addition and subtraction within 20

Year 1 SPRING

Week 1 Week 2	Week 3	Week 4 Week 5	Week 6 Week 7	Week 8	Week 9 Week 10
Time	Addition and subtraction	Number and place value	Addition and subtraction	Fractions	Length, weight, area and volume
Introduction to time	Addition and subtraction within 20	Numbers up to 40 or 50	Addition and subtraction within 40 or 50	Introduction to halves and quarters	Introduction to weight (or mass)

Year 1 SUMMER



Year 2 Autumn

Week 1 Week 2	Week 3 Week 4 Week 5 Week 6	Week 7 Week 8	Week 9	Week 10 Week 11	Week 12
Number and place value	Addition and subtraction	Length, weight, area and	Statistics	Multiplication and division	Times tables
Two-digit numbers	Two-digit addition and subtraction	Volume Units of length	Introduction to graphs	Multiplication and division	and skip counting 2s, 3s, 5s and 10s

Year 2 SPRING

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Tin	ne	Addition and	l subtraction	Mo	ney		Geometry		Frac	tions	Addition and	d subtraction
Telling t	he time	_	addition traction		tanding nd pence	Shapes an	d patterns	Rotation		uction ctions	_	it addition traction

Year 2 SUMMER

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Number and place	Len	gth, weight, area and v	olume	Multiplication	n and division	Times tables and
Three digit numbers	Capacity, volume	and temperature	Exploring weight (or mass)	Multiplication	n and division	3s, 4s, 8s, 50s and 100s

Year 3 Autumn

Week 1 Week 2	Week 3	Week 4 Week 5	Week 6	Week 7 Week 8 Week 9	Week 10 Week 11
Addition and subtraction	Money	Number and place value	Statistics	Addition and subtraction	Length, weight, area
Addition and subtraction within 100	Adding and subtracting money	Three-digit numbers	Using graphs	Three-digit addition and subtraction	and volume Length and perimeter

Year 3 SPRING

Week 1 Week 2	Week 3 Week 4 Week 5	Week 6	Week 7	Week 8 Week 9 W	Veek 10
Times tables and skip counting	Multiplication and division	Time	Roman	Fractions	
3s, 4, 8s, 50s and 100s	Exploring multiplication and division	Analogue and digital time	Roman numerals on the clock	to comparing, ordering and equivalent subtracting	croduction of finding fractions of an amount

Year 3 SUMMER

Week 1 Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
Geometry		Length,	weight, area and v	rolume	Times tables	Number an	ıd place value
Making shapes	Angles	Length, w	reight, capacity and	l volume	and skip counting 3s, 4s, 8s, 50s and 100s	Four-dig	it numbers

Year 4 Autumn

Week 1 Week 2	Week 3 Week 4 Week 5	Week 6	Week 7	Week 8	Week 9 Week 10
Number and place value	Addition and subtraction	Multiplication and	Factors,	Times tables	Statistics
Four digit numbers	Four-digit addition and subtraction	division Short multiplication	multiples and primes Factor pairs	and skip counting 6s, 7s, 9s, 25s and 1000s	Bar charts, pictograms, time graphs and tables

Year 4 SPRING

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7 Week 8 Week 9	Week 10 Week 1
Times tables		Frac	tions		Time	Decimals	Length, weight, area and
and skip counting 6s, 7s, 9s, 25s and 1,000s	Common equivalent fractions	Add and subtract fractions with the same denominator	Fractions of an amount	Compare, order and simplify fractions	Converting between units of time	Introduction to decimals	Area by counting shapes Perimete of simple shapes

Year 4 SUMMER

Week 1 Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Length, weight, area and volume	Money		Geor	metry		Roman numerals	Negative numbers	Geometry
Converting between different units of measure	Solving problems involving money	Classify quadrilaterals and triangles	Comparing angles	Symmetry	Coordinates and translations	Roman numerals to 100 (C)	Numbers below 0	Exploring 2D representa- tions of 3D shapes

Year 5 Autumn

Week 1	Week 2	Week 3 Week 4	Week 5	Week 6 Week 7	Week 8	Week 9 Week 10
Number and		Addition and subtraction	Factors,	Multiplication and division	Length,	weight, area and volume
place value At least a million	Introduction	Addition and subtraction of numbers with more than 4 digits	multiples and primes Factors, multiples	Multiplication of two-digit numbers and short division	Converting metric and simple imperial units	Perimeter and area Exploring capacity and volume
		With those what I digits	and prime numbers		Further converting between units of time	Volume

Year 5 SPRING

Week 1	Week 2	Week 3 Week 4	Week 5 Week 6	Week 7	Week 8 Week 9
Fractions	Decimals	Geometry	Fractions	Percentages	Statistics
Compare, order, and find equivalent fractions	Four operations with decimals	Drawing, measuring, comparing and finding angles	Introduction to adding and subtracting fractions with different denominators Multiply proper fractions and mixed numbers by whole numbers Ratio and proportion Rates and scaling by fractions	Introduction to percentages	Line graphs and tables

Year 5 SUMMER

	Week 1 Week 2	Week 3 Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Ī	Geometry Calculations with four		Decimals	Geometry		Calculations	Decimals	Percentages
		operations Combining addition,	Calculating	Missing	Building and drawing 2D	with four operations	Calculating	Calculating
	Reflection and translation	subtraction, multiplication and division	with decimals	angles and lengths	and 3D shapes and nets	Combining addition, subtraction, multiplication and division	with decimals	with percentages

Year 6 Autumn

Week 1	Week 2	Week 3	Week 4 Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Number and place value Positive integers	Times tables and skip counting 10s, 100s, 1,000s Roman numerals Roman numerals to 1,000 (M)	multiples and primes	Multiplication and division Long multiplication and short division	Addition and subtraction Addition and subtraction of numbers of any size	Calculations with four operations Calculations with four operations	Missing angles and lengths Circles	Negative numbers Negative numbers Geometry Classifying	Geometry Coordinates, translation and reflection

Year 6 SPRING

Week 1 Week 2	Week 3	Week 4 Week 5	Week 6	Week	7 Week 8	Week 9	Week 10	Taught through other units
Fractions		Ratio and proportion	Decimals	Time	Length, weight,	Persentages	Statistics	Algebra
Adding and subtracting fractions with different denominators	Multiply and divide fractions	Solving problems involving ratio and proportion	Calculating with decimals	Solving problems involving converting between units of time	Area and volume Area and volume	Calculating with percentages	Pie charts, line graphs and the mean average	Understanding algebra