Medium-term Plans



These medium-term plans give a complete at-a-glance overview of the structure of *Rising Stars Mathematics* for Year 5, which is a key resource we use at Heron Hill. We also use resources from *White Rose* and *Ready to Progress* for curriculum prioritization to address gaps in learning as a result of the pandemic. Teachers adapt their planning from these medium-term plans, often making the activity practical and more accessible for learners or adapted to be done outdoors.

These plans detail the order of teaching, key resources and a suggestion of what could be covered each week. The term 'week' is used flexibly. Depending on the class,

coverage may take a little less or a little more than a week. If teachers are confident that children have mastered a concept, then it is acceptable to move on quickly, just as it is important to allow children to spend longer on a topic if necessary to ensure they have fully mastered it before moving on.

Throughout the medium-term plans, the 'And finally' review pages are included at the end of each unit. However, it can be appropriate to use these pages throughout the unit by running the tasks after the relevant concepts.

It is important to remember that the length of a half-term will vary. If the half-term is short, teachers can choose to move a unit into the next term. If a half-term is long, teachers can choose to move a unit back into the preceding term. It is best practice to avoid splitting units between two half-terms, unless the content in each concept is very distinct.

Autumn 1

Rising	Stars Mathemat	tics					National Curriculum	
Week	Strand Number	Weekly summary Order,	Textbook topics and page numbers 1 Numbers in real	Teacher's Guide p.24–27	Practice Book p.4–6	Interactives and videos Animation:	Domain Number - number	Statement read, write, order and compare numbers to at
	Sense	compare and round numbers to 1 000 000.	life, p.10–11 1a Distances, p.12–13	Homework: Comparing and rounding 6- digit numbers and Holiday distances, p.192	ρ.+ · · ·	Comparing 4-digit numbers Interactive: Place value CPD: Number Sense - Introduction, The Learning Journey, Key Ideas 1, Key Ideas 2, Next Steps	and place value Measurement	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 round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and metre; gram and kilogram; litre and millilitre) solve problems involving converting between units of time



2	Number Sense	Convert between units of measure.	1b Converting units of measure, p.14–15	p.28–29 Homework: Multiplying and dividing by 10, 100 and 1000 and Time conversions, p.193	p.7–9		Number - number and place value Measurement	solve number problems and practical problems that involve all of the above convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) solve problems involving converting between units of time
3	Number Sense	Read, write, compare, round and order fractions.	1c Fraction and decimal equivalences, p.16–17 Gridlock!, p.20–21	p.30–31, p.34–35 Homework: Matching decimals and fractions and Decimal masses, p.194	p.10–12	Animation: Fraction and decimal equivalents Interactive: Fraction and decimal wall	Number - fractions (including decimals and percentages)	 read and write decimal numbers as fractions [for example, 0.71 = 71/100] recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
4	Number Sense	Read, write and order decimals involving up to two decimal places.	1d Reading, writing and ordering decimal numbers, p.18–19 Gridlock!, p.20–21 And finally, p.22–23	p.32–37 Homework: Comparing and rounding decimals and Capacity, p.195	p.13–15	CPD: Number Sense - Next Steps	Number - fractions (including decimals and percentages)	 round decimals with 2 decimal places to the nearest whole number and to 1 decimal place read, write, order and compare numbers with up to 3 decimal places solve problems involving number up to 3 decimal places





5	Additive Reasoning	Use mental strategies to perform addition and subtraction calculations involving four or more digits.	2 Methods for addition and subtraction, p.24–25 2a Mental calculation strategies, p.26–27 Follow the instructions!, p.20–21	p.38–41, p.44–45 Homework: Addition routes and Population differences, p.196	p.16–18	Interactive: Numerals and symbols CPD: Additive Reasoning - Introduction, The Learning Journey, Key Ideas 1, Next Steps	Number - addition and subtraction Measurement	 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 and why use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation including scaling
6	Additive Reasoning	Use formal written methods to perform addition and subtraction calculations involving four or more digits.	2b Written methods for addition and subtraction, p.28– 29 And finally, p.32–33	p.42–43, p.46–47 Homework: Subtraction reversed and A new fence, p.197	p.19–21	Interactive: Numerals and symbols CPD: Additive Reasoning - Key Ideas 2, Next Steps	Number - addition and subtraction Measurement	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling





7	Multiplicative	Identify	3 Methods for	p.48-51,	p.22–24	Animation: Common	Number -	identify multiples and factors, including finding			
	Reasoning	square and	multiplication	p.56–57		multiples	multiplication and	all factor pairs of a number, and common factors			
		cube	and division,	Homework:		Interactive: 100	division	of 2 numbers			
		numbers,	p.34–35	Square and		squares	Measurement	use all four operations to solve problems			
		multiples	3a Exploring	cube numbers		CPD: Multiplicative		involving measure [for example, length, mass,			
		and factors.	multiples, factors,	and <i>Multiples</i>		Reasoning -		volume, money] using decimal notation, including			
			squares and	and factors,		Introduction, The		scaling			
			cubes, p.36–37 Head for the	p.198		Learning Journey, Key					
			stars!, p.42–43			Ideas 1, Key Ideas 2,					
			Game 1			Next Steps					
	Rising Stars Mathematics Half-Termly Test Year 5 Autumn 1										

Medium-term Plans



Autumn 2

Rising	Stars Mathemat	ics					National Curric	ulum
Week	Strand	Weekly summary	Textbook topics and page numbers	Teacher's Guide	Practice Book	Interactives and videos	Domain	Statement
8	Multiplicative Reasoning	Use mental strategies to perform multiplication and division calculations.	3b Mental calculation strategies for multiplication and division, p.38–39 Head for the stars!, p.42–43 Game 2	p.52–53, p.56–57 Homework: Multiplying by 5 and 20 and Multiplication facts, p.199	p.25–27	CPD: Multiplicative Reasoning - Key Ideas 1, Next Steps	Number - multiplication and division Measurement	 multiply and divide numbers mentally, drawing upon known facts solve problems involving multiplication and division, including using their knowledge of factors and multiples use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling
9	Multiplicative Reasoning	Use formal written methods to perform calculations involving multiplying or dividing by one-digit numbers.	3c Written methods for multiplication and division, p.40–41 Head for the stars!, p.42–43 And finally, p.44– 45	p.54–59 Homework: Multiplication arrays and Division practice, p.200	p.28-31	Interactive: Numerals and symbols CPD: Multiplicative Reasoning - Next Steps	Number - multiplication and division Measurement	 multiply numbers up to 4 digits by a one-digit number using a formal written method 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 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling



10	Geometric Reasoning	Identify regular and irregular 2-D shapes.	4 Triangles — and other polygons, p.46–47 4a Regular or irregular?, p.48–49 Making polygons!, p.54–55	p.60–63, p.68–69 Homework: Parallel pairs and Making shapes, p.201	p.32–34	Animation: Regular and irregular 2-D shapes Animation: Identifying angles Interactive: 2-D shapes Interactive: Geometry instruments CPD: Geometric Reasoning - Introduction, Learning Journey, Key Ideas 1, Key Ideas 2, Next Steps	Geometry - properties of shapes	 distinguish between regular and irregular polygons based on reasoning about equal sides and angles know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles identify angles at a point on a straight line and ½ a turn (total 180°)
11	Geometric Reasoning	Measure and calculate angles. Draw angles and triangles using a ruler and protractor.	4b Angles, p.50–51 4c Drawing angles, p.52–53 And finally, p.56– 57	p.64–67, p.70–71 Homework: Unknown angles and Making triangles, p.202, and Isosceles stretch and Split the grid, p.203	p.35–39	Animation: Regular and irregular 2-D shapes Animation: Identifying angles Interactive: 2-D shapes Interactive: Geometry instruments Animation: Properties of triangles Animation: Straight lines and triangles Interactive: Geometry instruments CPD: Geometric Reasoning - Next Steps	Geometry - properties of shapes	 draw given angles, and measure them in degrees (°) distinguish between regular and irregular polygons based on reasoning about equal sides and angles



Sense	order and compare numbers to at least 1 000 000.	number, p.58–59 5a Place holders and comparing, p.60–61	Homework: Target number and Mass comparisons, p.204	p.40-41	Animation: Comparing 4-digit numbers Interactive: Place value CPD: Number Sense - Key Ideas 1, Next Steps	Number - number and place value Measurement	 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 read Roman numerals to 1000 (M) and recognise years written in Roman numerals use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling
13 Number Sense	Interpret negative numbers in context.	5b Positive and negative numbers, p.62–63	p.76–77 Homework: Positive and negative numbers and Temperatures, p.205	p.42–43	Animation: Comparing 4- digit numbers Interactive: Place value	Number - number and place value Measurement Statistics	 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0 read Roman numerals to 1000 (M) and recognise years written in Roman numerals use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling solve comparison, sum and difference problems using information presented in a line graph



Spring 1

Rising S	tars Mathem	atics					National Curric	ulum
Week	Strand	Weekly summary	Textbook topics and page numbers	Teacher's Guide	Practice Book	Interactives and videos	Domain	Statement
14	Number Sense	Read and use Roman numerals.	5c Roman numerals, p.64–65 A mixture of numbers, p.66–67 And finally, p.68– 69	p.78–83 Homework: <i>Train timetables</i> and <i>Roman</i> calculations, p.206	p.44–45	CPD: Number Sense - Introduction, The Learning Journey, Key Ideas 1, Next Steps	Number - number and place value Measurement	 read Roman numerals to 1000 (M) and recognise years written in Roman numerals use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling complete, read and interpret information in tables, including timetables
15	Additive Reasoning	Use mental or written methods to solve addition and subtraction	6 Mental and written methods for addition and subtraction, p.70–71 6a Mental or written methods?, p.72–73	p.84–93 Homework: Choosing addition methods and Higher and higher, p.207, and	p.46–51	Interactive: Numerals and symbols CPD: Additive Reasoning - Key Ideas 1, Key Ideas	Number - 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 use all four operations to solve problems involving
		Use a variety of methods to check	6b Don't forget to check!, p.74–75 A wise choice, p.76– 77 And finally, p.78–	Subtraction trail and Record breakers, p.208		2, Next Steps	Measurement	measure [for example, length, mass, volume, money] using decimal notation, including scaling • solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
		addition and subtraction calculations.	79				Statistics	 solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables





16	Number	Compare and	7 Fractions,	p.94–97	p.52–54	Animation:	Number -	compare and order fractions whose denominators
	Sense	order	decimals and	Homework:		Fraction and	fractions	are all multiples of the same number
		fractions	percentages, p.80–	Ordering fractions		decimal	(including	
		whose	81	and <i>Equivalent</i>		equivalents	decimals and	
		denominators	7a Comparing and	<i>pairs</i> , p.209		Interactive:	percentages)	
		are all	ordering fractions,			Fraction and		
		multiples of	p.82–83			decimal wall	Measurement	use all four operations to solve problems involving
		the same				CPD: Number		measure [for example, length, mass, volume, money]
		number.				Sense - Key Ideas		using decimal notation, including scaling
						2, Next Steps		
17	Number	Recognise	7b Improper	p.98–99	p.55–57	Animation:	Number -	recognise mixed numbers and improper fractions
	Sense	mixed	fractions and mixed	Homework:		Fraction and	fractions	and convert from one form to the other and write
		numbers and	numbers, p.84–85	Improper fractions		decimal	(including	mathematical statements >1 as a mixed number [for
		improper		to mixed numbers		equivalents	decimals and	example, 2/5 + 4/5 = 6/5 = 1 1/5]
		fractions.		and Measuring and		Interactive:	percentages)	read and write decimal numbers as fractions [for
				converting lengths,		Fraction and		example, 0.71 = 71/100]
				p.210		decimal wall	Measurement	use all four operations to solve problems involving
								measure [for example, length, mass, volume, money]
								using decimal notation, including scaling
18	Number	Identify	7c Equivalences,	p.100–101,	p.58–59	Animation:	Number -	recognise and use thousandths and relate them to
	Sense	equivalent	p.86–87	p.104-105		Fraction and	fractions	tenths, hundredths and decimal equivalents
		fractions.	Fraction fun!, p.90–	Homework: Grams		decimal	(including	identify, name and write equivalent fractions of a
			91 Game 2	and kilograms and		equivalents	decimals and	given fraction, represented visually, including tenths
				Decimal stepping		Interactive:	percentages)	and hundredths
				stones, p.211		Fraction and		
						decimal wall		



19	Number	Understand	7d Percentages,	p.102-107	p.60-63	CPD: Number	Number -	 recognise the per cent symbol (%) and understand 			
	Sense	and use	p.88–89	Homework:		Sense - Next Steps	fractions	that per cent relates to 'number of parts per hundred',			
		percentages.	Fraction fun!, p.90–	Finding		,	(including	and write percentages as a fraction with denominator			
			91 Game 1	percentages and			decimals and	100, and as a decimal			
			And finally, p.92–	Percentage,			percentages)	• identify, name and write equivalent fractions of a			
			93	decimal, fraction,				given fraction, represented visually, including tenths			
				p.212				and hundredths			
								compare and order fractions whose denominators			
								are all multiples of the same number			
							Measurement	 use all four operations to solve problems involving 			
								measure [for example, length, mass, volume, money]			
								using decimal notation, including scaling			
	Rising Stars Mathematics Half-Termly Test Year 5 Spring 1										



Spring 2

Rising	Stars Mathemat	ics					National Curric	ulum
Week	Strand	Weekly summary	Textbook topics and page numbers	Teacher's Guide	Practice Book	Interactives and videos	Domain	Statement
20	Multiplicative Reasoning	Identify and use prime, square and cube numbers.	8 Special numbers, operators and scaling, p.94–95 8a Primes, squares and cubes, p.96–97	p.108–111 Homework: Square areas and Prime investigation, p.213	p.64–66	Interactive: 100 squares CPD: Multiplicative Reasoning - Key Ideas 1, Key Ideas 2, Next Steps	Number - multiplication and division	 know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
21	Multiplicative Reasoning	Solve multiplication and division calculations using fractions as operators.	8b Using fractions as operators for multiplication and division, p.98–99	p.112–113 Homework: Finding fractions of amounts and Which deal is best?, p.214	p.67–69	CPD: Multiplicative Reasoning - Key Ideas 3	Number - fractions (including decimals and percentages)	• solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25
22	Multiplicative Reasoning	Solve multiplication and division calculations using scaling.	8c Using scaling for multiplication and division, p.100–101 Higher and higher, p.102–103 And finally, p.104–105	p.114–119 Homework: Growth rate of plants and Scaling the cost of flowers, p.215	p.70–73	CPD: Multiplicative Reasoning - Key Ideas 2, Next Steps	Number - multiplication and division Measurement	 solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling



23	Geometric Reasoning	Describe transformations of 2-D shapes.	9 2-D and 3-D shapes, p.106–107 9a Reflecting and translating 2-D shapes, p.108–109	p.120–123 Homework: Reflection game and Symmetrical arrangement, p.216	p.74–78	Interactive: 2-D shapes Interactive: 3-D shapes Interactive: Geometry instruments CPD: Geometric Reasoning - Key Ideas 1, Key Ideas 2, Next Steps	Geometry - position and direction	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
24	Geometric Reasoning	Identify 3-D shapes.	9b Identifying 3-D shapes, p.110-111 3-D shapes challenge, p.114- 115	p.124–125, p.128–129 Homework: Shape maker and 3-D constructions with cubes, p.217	p.79–82	Interactive: 3-D shapes	Geometry - position and direction	identify 3-D shapes, including cubes and other cuboids, from 2-D representations
25	Geometric Reasoning	Draw, measure and calculate angles.	9c Angles, p.112– 113 And finally, p.116–117	p.126–127, p.130–131 Homework: Finding triangles and Guess my shape, p.218	p.83–85	Animation: Identifying angles Animation: Straight lines and angles Interactive: Geometry instruments CPD: Geometric Reasoning - Next Steps	Geometry - properties of shapes	 know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (°) identify: angles at a point and 1 whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90° identify 3-D shapes, including cubes and other cuboids, from 2-D representations use the properties of rectangles to deduce related facts and find missing lengths and angles





26	Number	Use negative	10 Negative	p.132–135,	p.86-88	Interactive:	Number -	interpret negative numbers in context, count		
	Sense	numbers, large	numbers, fractions	p.140-141		Fraction and	number and	forwards and backwards with positive and negative		
		numbers and	and decimals,	Homework:		decimal wall	place value	whole numbers including through 0		
		fractions.	p.118–119	Making millions		CPD: Number		• read, write, order and compare numbers to at least 1		
			10a Negative	and <i>Comparing</i>		Sense - Key Ideas		000 000 and determine the value of each digit		
			numbers and	areas, p.219		1, Key Ideas 2,				
			millions, p.120–121			Next Steps				
			Number order							
			challenge, p.126–							
			127 Game 1							
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Medium-term Plans



Summer 1

Rising	Stars Mather	natics					National Curriculum		
Week	Strand	Weekly summary	Textbook topics and page numbers	Teacher's Guide	Practice Book	Interactives and videos	Domain	Statement	
27	Number Sense	Compare and order fractions. Recognise and convert between mixed numbers and improper fractions. Read, write, order, compare and round decimal fractions.	10b All about fractions, p.122–123 10c All about decimal fractions, p.124–125 Number order challenge, p.126–127 Game 2 And finally, p.128– 129	p.136–143 Homework: Fractions of amounts and Equivalent fractions, p.220, and Rounding decimals and Calculating decimal mass, p.221	p.89–95	Interactive: Fraction and decimal wall Animation: Fraction and decimal equivalents Interactive: Place value CPD: Number Sense - Key Ideas 1, Key Ideas 2, Next Steps	Number - fractions (including decimals and percentages)	 compare and order fractions whose denominators are all multiples of the same number 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, 2/5 + 4/5 = 6/5 = 1 1/5] read and write decimal numbers as fractions [for example, 0.71 = 71/100] round decimals with 2 decimal places to the nearest whole number and to 1 decimal place convert between different units of measure (e.g. kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre) 	
28	Additive Reasoning	Add and subtract large numbers and decimals with up to three decimal places.	11 Addition and subtraction using measurement, p.130–131 11a Applying addition and subtraction, p.132–133 A moley mass!, p.136–137	p.144–147, p.150–151 Homework: Adding and subtracting measurements and Slush machines, p.222	p.96–99	CPD: Additive Reasoning - Key Ideas 1, Key Ideas 2, Next Steps	Number - addition and subtraction Number - fractions (including decimals and percentages)	 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) solve problems involving number up to three decimal places 	



29	Additive Reasoning	Add and subtract fractions with denominators that are multiples of the same number.	11b Adding and subtracting fractions, p.134–135 And finally, p.138– 139	p.148–149, p.152–153 Homework: Fraction puzzle and Fraction conversions and calculations, p.223	p.100-103	CPD: Additive Reasoning - Next Steps	Number - fractions (including decimals and percentages)	 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, 2/5 + 4/5 = 6/5 = 1 1/5] add and subtract fractions with the same denominator, and denominators that are multiples of the same number
							Measurement	 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
30	Number Sense	Compare and order fractions whose denominators are all multiples of the same number.	12 Exploring fractions, decimals and percentages, p.140– 141 12a Exploring fractions, p.142–143	p.154–157 Homework: Fractions of time and Weighing and finding fractions, p.224	p.104–107	CPD: Number Sense - Key Ideas 1, Key Ideas 2, Next Steps	Number - fractions (including decimals and percentages) Measurement	 compare and order fractions whose denominators are all multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling



31	Number	Use decimal	12b Working with	p.158-159	p.108-110	Interactive: Place	Number - fractions	• read and write decimal numbers as
	Sense	numbers to four	decimals, p.144–145	Homework:		value	(including decimals	fractions [for example, 0.71 = 71/100]
		decimal places.		Multiply and			and percentages)	 recognise and use thousandths and relate
				divide by				them to tenths, hundredths and decimal
				multiples of 10,				equivalents
				100 and 1000			Number -	 multiply and divide whole numbers and
				and Mystery			multiplication and	those involving decimals by 10, 100 and 1000
				number, p.225			division	
							Measurement	 use all four operations to solve problems
								involving measure [for example, length,
								mass, volume, money] using decimal
								notation, including scaling
32	Number	Calculate and	12c Calculating and	p.160-165	p.111–113	Interactive: Place	Number - fractions	 recognise the per cent symbol (%) and
	Sense	convert	converting	Homework:		value	(including decimals	understand that per cent relates to 'number
		percentages.	percentages, p.146–	Population		CPD: Number	and percentages)	of parts per hundred', and write percentages
			147	percentages and		Sense - Next		as a fraction with denominator 100, and as a
			Playing around with	Takeaway price		Steps		decimal
			percentages!, p.148–	increase, p.226			Measurement	• use all four operations to solve problems
			149					involving measure [for example, length,
			And finally, p.150–					mass, volume, money] using decimal
			151					notation, including scaling
			, i	Rising Stars Mathen	natics Half-Ter	mly Test Year 5 Sum	nmer 1	

Medium-term Plans



Summer 2

Rising	Stars Mathemat	ics					National Curriculum		
Week	Strand	Weekly summary	Textbook topics and page numbers	Teacher's Guide	Practice Book	Interactives and videos	Domain	Statement	
33	Multiplicative Reasoning	Identify and use factors and prime factors.	13 Factors, scaling and long multiplication and division, p.152–153 13a All about factors, p.154–155	p.166–169 Homework: <i>Prime</i> factor tree and Age factors, p.227	p.114–117	Interactive: 100 squares CPD: Multiplicative Reasoning - Key Ideas 2, Next Steps	Number - multiplication and division Measurement	 identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling 	
34	Multiplicative Reasoning	Perform mental multiplication and division calculations.	13b Mental calculation and scaling, p.156–157 Mental maths!, p.162– 163	p.170–171, p.176–177 Homework: Scaling up using multiplication and Scaling down, p.228	p.118–120	CPD: Multiplicative Reasoning - Key Ideas 1	Number - multiplication and division Measurement	 multiply and divide numbers mentally, drawing upon known facts use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling 	
35	Multiplicative Reasoning	Multiply four- digit numbers by one-digit numbers.	13c 4-digit and long multiplication, p.158– 159	p.172–173 Homework: Using the grid method and Long multiplication, p.229	p.121–125		Number - multiplication and division Measurement	 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 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling 	



36	Multiplicative Reasoning	Divide four- digit numbers by one-digit numbers.	13d Division with remainders, p.160–161 And finally, p.164– 165	p.174–175, p.178–179 Homework: Remainders as decimals and fractions and Remainders after division, p.230	p.126–127	CPD: Multiplicative Reasoning - Next Steps	Number - multiplication and division	 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 solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
37	Geometric Reasoning	Measure and calculate perimeter of composite shapes. Calculate the area and perimeter of irregular shapes.	14 Perimeter, area and volume, p.166–167 14a Finding perimeters, p.168–169 14b Areas and perimeters, p.170–171 Rectangle fill in, p.174– 175	p.180–185, p.188–189 Homework: Perimeters of rectangles and Finding perimeters, p.231, and Areas of rectangles and Areas and perimeters, p.232	p.128–136	Animation: Regular and irregular 2-D shapes Animation: Polygons CPD: Geometric Reasoning - Key Ideas 1, Next Steps	Measurement	 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
38	Geometric Reasoning	Calculate volume of cuboids.	14c Volume and capacity, p.172–173 And finally, p.176– 177	p.186–187, p.190–191 Homework: Volume patterns and Investigating volumes, p.233	p.137–139	Animation: What is capacity? CPD: Geometric Reasoning - Next Steps	Measurement	estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]
			R	ising Stars Mathemat	ics Half-Term	ly Test Year 5 Sum	mer 2	