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 Mathemati	ics					National Curriculum	
Week	Strand	Weekly summary	Textbook topics and page numbers	Teacher's Guide	Practice Book	Interactives and videos	Domain	Statement
1	Number Sense	Order, compare and round numbers to 1 000 000.	1 Numbers in real life, p.10–11 1a Distances, p.12–13	p.24–27 Homework: <i>Comparing and</i> <i>rounding 6-</i> <i>digit numbers</i> and <i>Holiday</i> <i>distances</i> , p.192	p.4–6	Animation: Comparing 4-digit numbers Interactive: Place value CPD: Number Sense - Introduction, The Learning Journey, Key Ideas 1, Key Ideas 2, 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 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 millimetre; 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: <i>Multiplying and</i> <i>dividing by 10,</i> <i>100 and 1000</i> and <i>Time</i> <i>conversions,</i> 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: <i>Matching</i> <i>decimals and</i> <i>fractions</i> and <i>Decimal</i> <i>masses</i> , 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: <i>Comparing and</i> <i>rounding</i> <i>decimals</i> and <i>Capacity</i> , 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: <i>Addition routes</i> and <i>Population</i> <i>differences</i> , 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: <i>Subtraction</i> <i>reversed</i> and <i>A</i> <i>new fence</i> , 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 Reasoning	Identify square and cube numbers, multiples and factors.	3 Methods for multiplication and division, p.34–35 3a Exploring multiples, factors, squares and cubes, p.36–37 Head for the stars!, p.42–43 Game 1	p.48–51, p.56–57 Homework: <i>Square and</i> <i>cube numbers</i> and <i>Multiples</i> <i>and factors</i> , p.198	p.22–24	Animation: Common multiples Interactive: 100 squares CPD: Multiplicative Reasoning - Introduction, The Learning Journey, Key Ideas 1, 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 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling
				Rising Stars	Mathematic	s Half-Termly Test Year 5	Autumn 1	

Medium-term Plans



Autumn 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	
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: <i>Multiplying by</i> <i>5 and 20</i> and <i>Multiplication</i> <i>facts</i> , 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: <i>Multiplication</i> <i>arrays</i> and <i>Division</i> <i>practice</i> , p.200	p.28–31	Interactive: <i>Numerals and symbols</i> CPD: <i>Multiplicative</i> <i>Reasoning - Next Steps</i>	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 	



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



12	Number	Read. write.	5 Different types of	p.72–75	p.40–41	Animation: Comparing 4-	Number -	 read, write, order and compare numbers to
	Sense	order and	number. p.58–59	Homework:	F	diait numbers	number and	at least 1 000 000 and determine the value of
		compare	5a Place holders and	Target number		Interactive: <i>Place value</i>	place value	each digit
		numbers to at	comparing, p.60–61	and Mass		CPD: Number Sense - Key		• round any number up to 1 000 000 to the
		least		comparisons,		Ideas 1. Next Steps		nearest 10, 100, 1000, 10 000 and 100 000
		1 000 000.		p.204				 read Roman numerals to 1000 (M) and
								recognise years written in Roman numerals
							Measurement	 use all four operations to solve problems
								involving measure [for example, length, mass,
								volume, money] using decimal notation,
								including scaling
13	Number	Interpret	5b Positive and	p.76–77	p.42–43	Animation: Comparing 4-	Number -	 interpret negative numbers in context,
	Sense	negative	negative numbers,	Homework:		digit numbers	number and	count forwards and backwards with positive
		numbers in	p.62–63	Positive and		Interactive: Place value	place value	and negative whole numbers, including
		context.		negative				through 0
				numbers and				 read Roman numerals to 1000 (M) and
				Temperatures,				recognise years written in Roman numerals
				p.205			Measurement	 use all four operations to solve problems
								involving measure [for example, length, mass,
								volume, money] using decimal notation,
								including scaling
							Statistics	 solve comparison, sum and difference
								problems using information presented in a
				Dising Store Math		If Tormby Tost Voor 5 Automa 2		line graph

Medium-term Plans



Spring 1

Rising S	Stars Mathem	atics				National Curriculum		
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> <i>calculations</i> , p.206	p.44–45	CPD: Number Sense - Introduction, The Learning Journey, Key Ideas 1, Next Steps	Number - number and place value Measurement Statistics	 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 calculations. Use a variety of methods to check addition and	6 Mental and written methods for addition and subtraction, p.70–71 6a Mental or written methods?, p.72–73 6b Don't forget to check!, p.74–75 A wise choice, p.76– 77 And finally, p.78– 79	p.84–93 Homework: Choosing addition methods and Higher and higher, p.207, and Subtraction trail and Record breakers, p.208	p.46–51	Interactive: Numerals and symbols CPD: Additive Reasoning - Key Ideas 1, Key Ideas 2, Next Steps	Number - addition and subtraction Measurement Statistics	 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 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 solve comparison, sum and difference problems
		calculations.						 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 Equivalent		equivalents	decimals and	
		denominators	7a Comparing and	pairs, 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 - Kev Ideas		using decimal notation, including scaling
						2 Next Stens		
17	Number	Pocognico	7h Impropor	n 08 00	5 E E 7	Animation	Number	• recognice mixed numbers and improper fractions
1/	Sonco	mixed	fractions and mixed	p.96-99	p.55–57	Fraction and	fractions	• recognise mixed numbers and improper fractions
	Sense	numbers and	numbers n 84 85	Improper fractions		docimal	lincluding	mathematical statements >1 as a mixed number [for
		impropor	numbers, p.84–85	to mixed numbers		aquivalants	docimals and	11 at the matrice is statements > 1 as a mixed number [10]
		fractions		and Measuring and		Interactive	norcontagos)	 road and write desimal numbers as fractions [for
		fractions.		converting lengths		Fraction and	percentages	\circ read and write decimal numbers as fractions [10]
				n 210		decimal wall	Measurement	• use all four operations to solve problems involving
				p.210			Weasurement	measure [for example length mass volume money]
								using decimal potation, including scaling
18	Number	Identify	7c Fauivalences	n 100–101	n 58–59	Animation:	Number -	recognise and use thousandths and relate them to
10	Sonso	equivalent	n 86-87	p.100 101, p.104 -105	p.56 55	Eraction and	fractions	tenths, hundredths and decimal equivalents
	Jense	fractions	Fraction funding 90-	Homework: Grams		decimal	(including	• identify, name and write equivalent fractions of a
		indetions.	91 Game 2	and kilograms and		equivalents	decimals and	given fraction represented visually including tenths
			JI Guine Z	Decimal stenning		Interactive	nercentages)	and hundredths
				stones n 211		Fraction and	percentages)	
				5101103, p.211		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 Math	ematics Hal	f-Termly Test Year 5	Spring 1					

Medium-term Plans



Spring 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	
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: <i>Square areas</i> and <i>Prime</i> <i>investigation</i> , 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: <i>Reflection game</i> and <i>Symmetrical</i> <i>arrangement</i> , 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: <i>Finding triangles</i> and <i>Guess my</i> <i>shape</i> , 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 Comparing		Sense - Key Ideas		000 000 and determine the value of each digit		
			numbers and	<i>areas,</i> p.219		1. Kev Ideas 2.				
			millions, p.120-121			Next Stens				
			Number order			Next Steps				
			challenge, p.126–							
			127 Game 1							
	Rising Stars Mathematics Half-Termly Test Year 5 Spring 2									

Medium-term Plans



Summer 1

Rising	Stars Mathem	natics					National Curriculum	
Week	Strand	Weekly	Textbook topics and	Teacher's Guide	Practice	Interactives and	Domain	Statement
		summary	page numbers		Book	videos		
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) Measurement	 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	Add and	11b Adding and	p.148–149,	p.100–103	CPD: Additive	Number - fractions	 recognise mixed numbers and improper
	Reasoning	subtract	subtracting fractions,	p.152–153		Reasoning - Next	(including decimals	fractions and convert from one form to the
		fractions with	p.134–135	Homework:		Steps	and percentages)	other and write mathematical statements >1
		denominators	And finally, p.138–	Fraction puzzle				as a mixed number [for example, 2/5 + 4/5 =
		that are	139	and Fraction				6/5 = 1 1/5]
		multiples of the		conversions and				 add and subtract fractions with the same
		same number.		calculations,				denominator, and denominators that are
				p.223				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	Compare and	12 Exploring fractions,	p.154–157	p.104–107	CPD: Number	Number - fractions	 compare and order fractions whose
	Sense	order fractions	decimals and	Homework:		Sense - Key Ideas	(including decimals	denominators are all multiples of the same
		whose	percentages, p.140–	Fractions of time		1 Key Ideas 2	and percentages)	number
		denominators	141	and Weighing		Novt Stone		 multiply proper fractions and mixed
		are all multiples	12a Exploring	and finding		Next Steps		numbers by whole numbers, supported by
		of the same	fractions, p.142–143	fractions, p.224				materials and diagrams
		number.					Measurement	 use all four operations to solve problems
								involving measure [for example, length,
								mass, volume, money] using decimal
								notation, including scaling



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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	<i>decimals,</i> 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 Mustery			multiplication and	those involving decimals by 10, 100 and 1000			
				and Wystery			division	those involving decimals by 10, 100 and 1000			
				number, p.225							
							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			
		p 0. 00.100.8001	147	nercentages and		Compo Novt	ana percentageo)	as a fraction with denominator 100 and as a			
			Playing ground with	Takagway price		Sense - Next		docimal			
				increases a 220		Steps	N 4				
			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			
	Rising Stars Mathematics Half-Termly Test Year 5 Summer 1										

Medium-term Plans



Summer 2

Rising	Stars Mathemati	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> <i>factor tree</i> and <i>Age</i> <i>factors</i> , 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



		numbers by one-digit numbers.	And finally, p.164– 165	p.178–179 Homework: <i>Remainders as</i> <i>decimals and</i> <i>fractions</i> and <i>Remainders after</i> <i>division</i> , p.230		Multiplicative Reasoning - Next Steps	multiplication and division	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: <i>Perimeters of</i> <i>rectangles</i> and <i>Finding perimeters</i> , p.231, and <i>Areas</i> <i>of rectangles</i> and <i>Areas and</i> <i>perimeters</i> , 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: <i>Volume patterns</i> and <i>Investigating</i> <i>volumes</i> , p.233	p.137–139	Animation: What is capacity? CPD: Geometric Reasoning - Next Steps	Measurement	• estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cubes)] and capacity [for example, using water]