Year 5 Mathematics Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1	Unit 1 Place Value	Unit 6	Unit 10 Place Value and Negative Numbers	Unit 15 Fractions		Unit 25 Division
Week 2		Multiplication and Division	Unit 11 Addition and Subtraction	Unit 20 Place Value Unit 16 Geometry (Shape)	Unit 20 Place Value	Unit 26 Fractions
Week 3	Unit 2	Unit 7 Fractions	Unit 12 Multiplication	Unit 17 Measurement (Volume)	Unit 21 Measurement and Statistics	Unit 27 Percentages
Week 4	Addition and Subtraction	Unit 8 Multiplication and Area	Unit 13 Measures (Length, Mass and Capacity)	Unit 18 Statistics	Unit 22 Geometry	Unit 28 Statistics
Week 5	Unit 3 Statistics Unit 4 Geometry (Angles) Unit 5 Geometry and Measures	Unit 9		Unit 19 Problem Solving including Bar Modelling	Unit 23 Addition and Subtraction	Unit 29 Measurement
Week 6		Time Assess and review week	Unit 14 Geometry	Assess and review week	Unit 24 Multiplication	Assess and review week

<u>Autumn 1 – 6 weeks</u>

Starters • Count forwards in fractional thousandths $\left(\frac{1}{1000}\right)$ including where hundredths boundaries are

- Count forwards in fractional thousandths $\left(\frac{1}{1000}\right)$ including where hundredths boundaries are crossed, e.g. $\frac{167}{1000}$, $\frac{168}{1000}$, $\frac{169}{1000}$, $\frac{170}{1000}$, $\frac{171}{1000}$, ...
- Count backwards in fractional thousandths $(\frac{1}{1000})$ including where hundredths boundaries are crossed, e.g. $\frac{171}{1000'}$ $\frac{170}{1000'}$ $\frac{169}{1000'}$ $\frac{168}{1000'}$ $\frac{167}{1000'}$...
- Multiply/divide whole numbers and decimals by 10 where 0 is not used as a place holder, e.g. 3.24 x 10 or 729 ÷ 10
- Multiply/divide whole numbers and decimals by 10 where 0 is used as a place holder, e.g. 2. 04 x 10 or 806 \div 10
- Recognise that the numbers in addition calculations can be reordered to make calculating more efficient e.g. 1.7 + 2.8 + 0.3 becomes 1.7 + 0.3 + 2.8 or 58 + 47 38 becomes 58 38 + 47 and use this strategy where appropriate
- Recognise and solve calculations that involve known or related facts e.g. 1.2 + 0.8
- Recall and use addition and subtraction facts for 1 (with decimal numbers to one decimal place)
- Recall and use addition and subtraction facts for 10 (with decimal numbers to one decimal place)
- Use practical apparatus (e.g. place value counters, a 10 by 10 grid, a 100 bead string) and known facts (e.g. 42 + 58 = 100) to create addition and subtraction facts for 1 with decimal numbers to two decimal places (e.g. 0.42 + 0.58 = 1) Create generalisations based on addition and subtraction facts for 1 (e.g. the hundredths digits sum to 0.1 and the tenths digits sum to 0.9 and these add to give a total of 1)
- Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places)
- Add and subtract a whole number to/from a number with two decimal places, e.g. 4.32 + 4
- Add a four-digit number to another four-digit number where no boundaries are crossed e.g. 5124 + 1352
- Add a number with two decimal places to another where the tenths boundary is not crossed, e.g. 6.34 + 2.53
- Subtract a four-digit number from another four-digit number where no boundaries are crossed e.g. 7859 3427
- Subtract a number with two decimal places from another where the tenths boundary is not crossed, e.g. 5.45 2.33
- Recall and use multiplication facts up to 12 × 12 and related division facts
- Interpret information in a variety of sorting diagrams
- Complete a variety of sorting diagrams with given information
- Identify the properties used to sort a set of numbers or shapes in a completed diagram
- Read and interpret information in a range of tables with different contexts
- Complete tables by identifying missing information (context for +-)

• Read and interpret information in a range of timetables with different contexts (context for +-)

Number	Number and Place Value	
Weeks 1	and 2	
Lesson	Lesson Focus	
	Exchange 10 thousands for 1 ten thousand and vice versa using place value counters	
	Exchange 10 ten thousands for 1 hundred thousand and vice versa using place value	
1	counters	
1	Identify and represent numbers up to 100,000 using place value counters and a place	
	value chart	
	Partition a five-digit number into ten thousands, thousands, hundreds, tens and ones	
	Exchange 10 ten thousands for 1 hundred thousand and vice versa using place value	
	counters	
	Exchange 10 hundred thousands for 1 million and vice versa using place value counters	
2	Identify and represent numbers up to 1,000,000 using place value counters and a place	
	value chart	
	Partition a six-digit number into hundred thousands, ten thousands, thousands, hundreds,	
	tens and ones	
3	Exchange 1 tenth for 10 hundredths and vice versa using place value counters	
3	Exchange 1 hundredth for 10 thousandths and vice versa using place value counters	

	Identify and represent numbers up to three decimal places using place value counters
	Partition a number with up to three decimal places into tens, ones, tenths, hundredths
	and thousandths
	Use a place value chart or place value counters to support with identifying the value of
	each digit to three decimal places
4	Compare numbers to 1,000,000
	Compare numbers up to three decimal places where 0 is not used as a place holder
5	Order numbers to 1,000,000
-	Order numbers up to three decimal places where 0 is not used as a place holder
	Identify, represent and estimate numbers on a number line from 0 to 100,000 where the
6	number line has ten demarcations
-	Identify, represent and estimate numbers on a number line from 0 to 1,000,000 where the
	number line has ten demarcations
	Round any number up to 100,000 (Year 5 number) to the nearest 10, 100 or 1000 (Year 4
	rounding)
7	Round any number up to 1,000,000 (Year 5 number) to the nearest 10, 100 or 1000 (Year 4
	rounding)
	Round any number up to 100,000 to the nearest 10,000
	Find 0.01, 0.1, 1, 10, 100, 1000 more or less than a given number up to 1,000,000 including
	crossing boundaries
8	Find 10,000 more or less than a given number up to 1,000,000 including crossing 100,000
	boundaries
	Find 100,000 more or less than a given number up to 1,000,000
	Count forwards and backwards in steps of 10, 100 or 1,000 (Year 4 steps) for any given
	number up to 100,000 (Year 5 number)
9	Count forwards and backwards in steps of 10, 100 or 1,000 (Year 4 steps) for any given
	number up to 1,000,000 (Year 5 number)
	Count forwards and backwards in steps of 10,000 for any given number up to 1,000,000
	Describe and extend number sequences where the step size is in multiples of tenths, e.g.
	1.4, 1.7, 2.0, 2.3 (step size 0.3)
10	Describe and extend number sequences where the step size is in multiples of hundredths
	less than a tenth, e.g. 2.31, 2.37, 2.43, 2.49 (step size 0.06)
	Describe and extend number sequences where the step size is in multiples of hundredths
	greater than a tenth, e.g. 2.42, 2.57, 2.72, 2.87 (step size 0.15)
Addition Weeks 3	n and Subtraction
Lesson	Lesson Focus
1	Recognise calculations that require mental partitioning e.g. 4300 + 1400 or 424 – 250 or
1	6.32 – 3.5 and use this strategy
	where appropriate (This could be supported by jottings)
	Recognise calculations that require counting on or back mentally, bridging through a multiple of 10 officiently or 1995 + 278 becomes 1995 + 5 + 272 or 702 + 128 becomes
2	multiple of 10 efficiently e.g. 1995 + 278 becomes 1995 + 5 + 273 or 703 – 128 becomes 703 – 3 – 125 and use this strategy where appropriate
	(This could be supported by pictures or jottings)
2	Recognise calculations that require counting on mentally to find the difference e.g. 5003 –
3	
	1960 (counting efficiently between the two numbers) and use this strategy where
	appropriate (This could be supported by a number line)
	appropriate (This could be supported by a number line) Recognise calculations that require a mental compensation method e.g. 325 + 298
4	appropriate (This could be supported by a number line) Recognise calculations that require a mental compensation method e.g. 325 + 298 becomes 325 + 300 – 2 and use this strategy where appropriate (This could be supported
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5	 appropriate (This could be supported by a number line) Recognise calculations that require a mental compensation method e.g. 325 + 298 becomes 325 + 300 - 2 and use this strategy where appropriate (This could be supported by pictures or jottings) Choose an appropriate mental strategy to solve a calculation based upon the numbers involved Add whole numbers with more than 4 digits including combinations of numbers with different amounts of digits using a column method e.g. 4689 + 67,302 + 785 = Use rounding to check answers to calculations and determine, in the context of a
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	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		
8	Subtract whole numbers with more than 4 digits including pairs of numbers with different amounts of digits, e.g. 54 368 – 9279		
•	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		
9	Subtract decimals with two decimal places, e.g. 206.04 – 72.36 Use rounding to check answers to calculations and determine, in the context of a		
	problem, levels of accuracy Choose an appropriate strategy to solve a calculation based upon the numbers involved		
10	(recall a known fact, calculate mentally, use a jotting, written method)		
Statistic	S		
Week 5 Lesson	Lesson Focus		
Lesson	Discrete data		
l	Answer questions which ask 'How many/much more?' or 'How many fewer/much less?'		
	when comparing two categories in a data set		
1	Answer questions which ask 'How many in total?' for different data readings		
I	Solve question where the answer has to be inferred from a given data set e.g. few ice creams were sold on Tuesday because it was raining		
	Understand the purpose of different types of graph and identify which is best suited for a		
	particular data set		
	Continuous data		
	Answer questions which ask 'How many/much more?' or 'How many fewer/much less?'		
	when comparing two categories in a data set		
2	Answer questions which ask 'How many in total?' for different data readings		
	Solve question where the answer has to be inferred from a given data set e.g. few ice creams were sold on Tuesday because it was raining		
	Understand the purpose of different types of graph and identify which is best suited for a		
	particular data set		
	ry (Angles)		
Week 5 Lesson	Lesson Focus		
Lesson	Know that angles are measured in degrees °		
	Identify reflex angles as those greater than 180° where two		
1	lines meet		
	Compare all types of angles including reflex angles		
2	Measure acute angles to the nearest degree		
L	Measure obtuse angles to the nearest degree		
3	Draw acute angles to the nearest degree		
Coomot	Draw obtuse angles to the nearest degree Measures		
Geomet Week 6	ivieasures		
	Measure and draw lines to the nearest mm		
1	Draw shapes with some given side dimensions, for example draw a triangle with side		
I	lengths of 67mm and 4.3cm. What is the length of the other side? Is there more than one		
	possibility?		
2	Identify the perimeter of composite rectilinear shapes through accurate measuring to the		
	nearest mm		
3	Calculate/identify the length of missing sides of composite rectilinear shapes (lengths in mm and decimal cm)		
	Calculate the perimeter of a composite rectilinear shape where the lengths of some sides		
4	are not given (lengths in mm and decimal cm)		
	Learning Check Up To This Point		

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Autumn 2 – 5 weeks

Charles

Starters
• Recall and use multiplication facts up to 12 × 12 and related division facts

- Use partitioning to double any decimal number to two decimal places
- Use partitioning to halve any decimal number to two decimal places where all the digits are even, e.g. halve 4.68
- Use partitioning to halve any decimal number to two decimal places where not all the digits are even, e.g. halve 6.74
- Use knowledge of place value and multiplication facts to multiply multiples of 100 and 1000 by a one-digit number e.g. $3000 \times 8 = 24000$
- Use knowledge of place value and multiplication facts to divide related larger numbers e.g. 6300 \div 9 = 700
- Use knowledge of place value and multiplication facts to decimals by a one-digit number e.g. 0.7 \times 6 = 4.2
- Multiply a two-digit number by a one-digit number using a partitioning strategy
- Read and write decimal numbers as fractions in tenths or hundredths, e.g. $0.9 = \frac{9}{10}, 0.71 = \frac{71}{100}$
- Multiply T0 x T0 using knowledge of factorising and tables facts e.g. 60 x 40 = 6 x 4 x 10 x 10 = 2400
- Use knowledge of place value and multiplication facts to multiply multiples of 100 and 1000 by a one-digit number e.g. $3000 \times 8 = 24000$
- Multiply T0 x T0 using knowledge of factorising and tables facts e.g. 60 x 40 = 6 x 4 x 10 x 10 = 2400

• Use compensation strategy to multiply H99 x U

	Multiplication and Division		
Weeks 1	1 and 2		
Lesson	Lesson Focus		
	Understand the term 'multiple' and identify multiples within known tables or counting		
1	patterns in hundreds and thousands		
	Identify multiples of 2, 5, 10, 25, 50 and 100 using rules of divisibility		
	Use and derive multiplication and division facts to identify factors within known tables		
2	Recognise that a square number is the product of two equal integers and can be written		
2	using ² notation, e.g. $7 \times 7 = 7^2$		
	Recognise and use square numbers up to 12 ²		
C	Use known facts to derive factors of multiples of 10 and 100, e.g. 240 could be factorised		
3	to 6 × 40		
4	Use a list strategy to identify common factors of two numbers within known tables		
F	Multiply a two-digit number by a one-digit number using a partitioning strategy		
5	Multiply a U.t number by a one-digit number using a partitioning strategy		
	Divide a 4-digit number by a 1-digit number		
6	Estimate division by rounding to the nearest multiple of 10, 100 or 1,000 of the divisor		
	and using related facts e.g. $3452 \div 6 \approx 3600 \div 6$		
	Divide a 4-digit number by a 1-digit number and interpret remainders appropriately for		
7	the context		
,	Estimate division by rounding to the nearest multiple of 10, 100 or 1,000 of the divisor		
	and using related facts e.g. $3452 \div 6 \approx 3600 \div 6$		
	Divide a 4-digit number by a 1-digit number and interpret remainders appropriately for		
8	the context		
Ũ	Estimate division by rounding to the nearest multiple of 10, 100 or 1,000 of the divisor		
	and using related facts e.g. $3452 \div 6 \approx 3600 \div 6$		
9	Divide a three-digit number by a one-digit number using a		
	partitioning strategy e.g. $942 \div 6$ becomes $(600 \div 6) + (300 \div 6) + (42 \div 6)$		
10	Choose an appropriate strategy to solve a division calculation based upon the numbers		
	involved (recall a known fact, calculate mentally, use a jotting, written method)		

Fraction Week 3	Fractions Week 3		
Lesson	Lesson Focus		
1	Identify, name and write equivalent fractions of a given fraction by using multiplication and division facts, e.g. $\frac{5}{7} = \frac{40}{56}$		
2	Compare two fractions where the denominator of one fraction is a multiple of the denominator of the other fraction, e.g. compare 2/3 and 7/9 Compare two fractions whose denominators are both multiples of the same number, e.g. compare $\frac{24}{32}$ and $\frac{32}{56}$ (only where the numerator allows a conversion to the common denominator)		
3	Order more than two fractions whose denominators are all multiples of the same number (only where the numerator allows a conversion to the common denominator)		
4	Recognise and use thousandths, e.g. $\frac{3}{1000} = 0.003$ and vice-versa Relate thousandths to tenths and hundredths, e.g. $\frac{70}{1000} = \frac{7}{100} = 0.07$, $\frac{900}{1000} = \frac{9}{10} = 0.9$		
5	Read and write decimal numbers as fractions, e.g. $0.8 = \frac{8}{10} = \frac{4}{5}$, $0.85 = \frac{85}{1000} = \frac{17}{20}$ Identify, name and write equivalent fractions for tenths and hundredths, e.g. $\frac{85}{100} = \frac{17}{20}$		
Multipli Week 4	cation Area		
Lesson	Lesson Focus		
1	Use compensation strategy to multiply H99 \times U		
2	Multiply a 4 digit by a 1-digit number using grid method Estimate multiplication by rounding to the nearest multiple of 10, 100 or 1,000 and using related facts e.g. $3842 \times 6 \approx 4000 \times 6$		
3	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)		
4	Solve problems involving multiplication and division, including understanding the meaning of the equals sign (bar modelling)		
5	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates (bar modelling)		
6	Use knowledge of arrays to understand why the area of rectangles can be calculated using length multiplied by width Calculate the area of rectangles (see progression in mental and written multiplication)		
7	Compare rectangles by area		
Measure Week 5	es (Time)		
Lesson	Lesson Focus		
1	Continue to read, write and convert time between analogue and digital 12 and 24-hour		
1	clocks		
2			
	clocks Complete timetables by identifying missing information Read and interpret information in a range of timetables with different contexts		

<u>Spring 1 – 6 weeks</u>

<u>spring</u> I	Spring 1 – 6 weeks				
Starters					
Count	• Count forwards and backwards in fractional thousandths (1/1000) including where tenths				
bound	boundaries are crossed				
Count	Count forwards and backwards in fractional thousandths (1/1000) including where ones				
bound	aries are crossed,				
Count	forwards and backwards in fractional thousandths				
Count	forwards and backwards in decimal thousandths				
Count	forwards and backwards in decimal thousandths (0.001) including where hundredths or				
	boundaries are crossed,				
-	28, 1.429, 1.430, 1.431				
	owledge of equivalence to refine the sequence, e.g. 1.428, 1.429, 1.43, 1.431				
	y angles that are other multiples of 90°, e.g. when jumping a snowboarder rotates through				
	d a half turns. Through how many degrees has the snowboarder turned? Answer: 540°				
	owledge of place value and multiplication facts to divide related larger numbers e.g.				
	$\div 9 = 700$				
	and use multiplication facts up to 12×12 and related division facts				
	owledge of place value and multiplication facts to divide related decimal numbers where idend is scaled down e.g. $3.2 \div 8 = 0.4$				
	owledge of place value and multiplication facts to divide related decimal numbers where				
	vidend and divisor are scaled down e.g. $3.2 \div 0.8 = 4$				
	Ilue and Negative Numbers				
Week 1					
Lesson	Lesson Focus				
1000011	Read and write numbers up to three decimal places where 0 is used as a place holder in				
1	any position				
	Identify and represent numbers with up to three decimal places				
	Identify the value of each digit to three decimal places in a variety of ways, e.g. the value				
2	of the digit 7 in 3.867 is seven thousandths, $\frac{7}{1000}$ or 0.007				
	Compare numbers with three decimal places where 0 is used as a place holder in any				
3	position				
5	Order numbers with three decimal places where 0 is used as a place holder in any position				
	Round decimals with two decimal places to the nearest whole number (e.g. 267.62 rounds				
4	to 268)				
	Explain the meaning of a negative number in a variety of real-life contexts (e.g. below				
	freezing, below sea level, under par (golf), negative goal difference)				
5	Count on and back with positive and negative whole numbers through zero				
	Order temperatures including those below 0°C (consolidation of Year 4)				
Additio	n and Subtraction				
Week 2					
Lesson	Lesson Focus				
	Recognise calculations that require counting on or back mentally, bridging through a				
	multiple of 10 efficiently				
1	e.g. $230 - 72$ becomes $230 - 30 - 40 - 2$ and use this strategy where appropriate				
	Use rounding to check answers to calculations and determine, in the context of a				
	problem, levels of accuracy				
	Recognise calculations that require counting on mentally to find the difference e.g.				
_	5,003 – 1,960 (counting efficiently between the two numbers) and use this strategy				
2	where appropriate				
	Use rounding to check answers to calculations and determine, in the context of a				
	problem, levels of accuracy				
	Recognise calculations that require a mental compensation method e.g. 325 + 298				
3	becomes $325 + 300 - 2$ and use this strategy where appropriate				
	Use rounding to check answers to calculations and determine, in the context of a				
A	problem, levels of accuracy				
4	Add and subtract whole numbers with more than 4 digits using formal written methods				

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. 5 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) Multiplecation Veeson Veeson Lesson Focus 1 Identify multiples of 3, 4, 6, 9, 20, using rules of divisibility 2 Identify factors of numbers beyond known tables (e.g. 91) 3 Identify identify commo factors of two numbers beyond known tables 6 Know and use the vocabulary of prime numbers, prime factors and composite (non-prime number) up to 100 is prime 8 Recall prime numbers up to 19 4 Multiply a 2 digit by a 2-digit number using grid method 9 Multiply a 2 digit by a 2-digit number using grid method 1 Multiply/divide whole numbers and decimals by 100 where 0 is not used as a place holder, e.g. 15.106 × 100 or 4070 ÷ 100 2 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 33.003 × 1,000 or 123 006 + 1000 2 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 33.003 × 1,000 or 123 006 + 1000 3 Convert km (up to 3 decimal places) to m and vice versa where 0 is used as a place holder, e.g. 7582 = 7.58249		
S Choose an appropriate strategy to solve a calculation based upon the numbers involved (recail a known fact, calculate mentally, use a jotting, written method) Multiplication Week 3 Lesson Lesson Focus 1 Identify multiples of 3, 4, 6, 9, 20, using rules of divisibility 2 Use a list strategy to identify common factors of two numbers beyond known tables Know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers 3 Establish whether a number up to 100 is prime Recail prime numbers up to 19 Multiply a 2 digit by a 2-digit number using grid method 4 Multiply a 2 digit by a 2-digit number using grid method Multiply a 2 digit by a 2-digit number using grid method 5 Image: State S		•
3 (recall a known fact, calculate mentally, use a jotting, written method) Multiplication Week 3 Lesson Lesson Focus 1 Identify factors of numbers beyond known tables (e.g. 91) 2 Identify factors of numbers beyond known tables (e.g. 91) 3 Establish whether a number up to 100 is prime factors and composite (non-prime) numbers 6 Establish whether a number up to 100 is prime 7 Recall prime numbers up to 19 4 Multiply 2 3 digit by a 2-digit number using grid method 5 Multiply 3 2 digit by a 2-digit number using grid method Messures (Length, Mass and Capacity) Week 4 Lesson Focus 8 1 Multiply/divide whole numbers and decimals by 100 where 0 is not used as a place holder, e.g. 157.100 or 2332 + 100 1 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 1,97.3 + 1,000 rationals by 1,000 where 0 is not used as a place holder, e.g. 3,37.5 + 1,000 rationals by 1,000 where 0 is not used as a place holder, e.g. 3,356m = 3,756m 2 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 7,2m = 0,072km 3 Convert Km (up to 3 decimal places) to m and vice versa where 0 is not used as a pla		
I (recall a known fact, calculate mentally, use a jotting, written method). Week 3 Lesson Lesson Focus 1 Identify multiples of 3, 4, 6, 9, 20, using rules of divisibility 2 Use a lisk strategy to identify common factors of two numbers beyond known tables Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime Recall prime numbers up to 19 4 Multiply a 2 digit by a 2-digit number using grid method 5 Multiply/divide whole numbers and decimals by 100 where 0 is not used as a place holder, e.g. 568 × 100 or 8532 + 100 1 Multiply/divide whole numbers and decimals by 100 where 0 is not used as a place holder, e.g. 15.106 × 100 or 4070 + 100 Revisit converting cm to metre and vice versa 4 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place 2 holder, e.g. 15.106 × 100 or 4070 + 100 Revisit converting cm to metre and vice versa 2 holder, e.g. 3.756m 2 holder, e.g. 3.756m 2 holder, e.g. 7.582g = 7.582g 3 holder, e.g. 7.582g = 7.582kg 4	5	
Week 3 Lesson Lesson Focus 1 Identify multiples of 3, 4, 6, 9, 20, using rules of divisibility 2 Use a list strategy to identify common factors of two numbers beyond known tables Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime Recall prime numbers up to 19 4 Multiply a 2 digit thy a 2-digit number using grid method Measures Lesson I commode up a 2-digit number using grid method Measures Lesson I commode up a 2-digit number using grid method Multiply/divide whole numbers and decimals by 100 where 0 is not used as a place holder, e.g. 5.68 × 100 or 4532 + 100 1 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 15.106 × 100 or 4070 + 100 2 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 33.03 × 1,000 or 1237 ± 1,000 2 Multiply/divide whole numbers and decimals by 1,000 where 0 is not used as a place holder, e.g. 3.756m = 3.756m = 3.756m 2 Multiply/divide up to 3 decimal places) to m and vice versa where 0 is not used as a place holder, e.g. 3.756m = 3.756m = 3.756m 2 Multiply/divide up to 3 decimal places) to g and vice versa where 0 is not used as a place holder, e.g. 3.756m = 3.756m </td <td></td> <td>(recall a known fact, calculate mentally, use a jotting, written method)</td>		(recall a known fact, calculate mentally, use a jotting, written method)
Lesson Lesson Focus 1 Identify multiples of 3, 4, 6, 9, 20, using rules of divisibility 2 Identify factors of numbers beyond known tables (e.g. 91) 2 Les a list strategy to identify common factors of two numbers beyond known tables 3 prime) numbers 3 prime) numbers 4 Multiply a 2 digit by a 2-digit number using grid method 5 Multiply a 3 digit by a 2-digit number using grid method 6 Multiply a 3 digit by a 2-digit number using grid method 7 Multiply/divide whole numbers and decimals by 100 where 0 is not used as a place holder, e.g. 5.68 × 100 or 852 ÷ 100 1 Multiply/divide whole numbers and decimals by 1000 where 0 is not used as a place holder, e.g. 15.106 × 100 or 4070 ÷ 100 8 Revisit converting cm to metre and vice versa 4 Multiply/divide whole numbers and decimals by 1.000 where 0 is not used as a place holder, e.g. 3.003 × 1.000 or 123 006 ÷ 1000 2 Multiply/divide whole numbers and decimals by 1.000 where 0 is not used as a place holder, e.g. 3.758M 2 Convert Km (up to 3 decimal places) to m, and vice versa where 0 is not used as a place holder, e.g. 3.303 × 1.000 or 123 006 ÷ 1000 2 Convert Km (up to 3 decimal places) to m and vice versa where 0 is not used as a place holder, e.g. 7.7		cation
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Geometry Weeks 5 and 6 Lesson Lesson Focus 1 Identify, describe and represent the position of a rectilinear shape following a reflection in a horizontal or vertical mirror line when all/some/no sides are parallel or perpendicular to the mirror line and when the shape is not touching the mirror line. 2 Identify, describe and represent the position of a rectilinear shape following a reflection in a horizontal or vertical mirror line when all/some/no sides are parallel or perpendicular to the mirror line and when the shape is touching the mirror line. 2 Identify, describe and represent the position of a rectilinear shape following a reflection in a horizontal or vertical mirror line when all/some/no sides are parallel or perpendicular to the mirror line and when the shape is touching the mirror line. 3 Describe positions on a 2-D grid as coordinates in the first quadrant 3 Plot specified points and draw sides to complete a given polygon	5	
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3 Plot specified points and draw sides to complete a given polygon		
Use reflection as a context	3	
	l	Use reflection as a context

4	Represent the position of a shape following a translation in one or two directions (left/right and/or up/down) Describe the translation for a shape that moves in one or two directions (left/right and/or up/down)	
5	Using a square grid Identify the position of a shape following a translation in one or two directions (left/right and/or up/down) Using a coordinate grid	
6	Measure acute and obtuse angles to the nearest degree using a 180° protractor Measure reflex angles to the nearest degree using a 360° protractor	
7	Draw acute and obtuse angles to the nearest degree using a 180° protractor Draw reflex angles to the nearest degree using a 360° protractor	
8	Estimate acute, obtuse and reflex angles using knowledge of a right angle and fractions of a right angle e.g. half a right angle is 45°; one third of a right angle is 30° and two thirds of a right angle is 60° and adding these to 90° (obtuse), and 180° or 270° (reflex)	
9	Use information given to calculate missing angles at a point on a straight line and half a turn (total 180°) Use information given to calculate missing angles at a point and one whole turn (total 360°)	
Learning Check Up To This Point		

<u>Spring 2 – 6 weeks</u>

Starters				
• Recall and use multiplication facts up to 12 × 12 and related division facts				
 Identif 	 Identify cubes and cuboids from 2-D pictures of them 			
 Identif 	Identify other 3-D shapes from 2-D pictures of them			
• Estima	Estimate the capacity of different containers			
• Estima	te the volume of liquid in a container			
• Estima	te the volume of cubes and cuboids by estimating their dimensions			
Compl	ete and interpret information in a variety of sorting diagrams (including those used to sort			
	rties of numbers and shapes)			
Fraction				
Weeks 1				
Lesson	Lesson Focus			
	Use concrete materials or pictorial representations to demonstrate conversion from an			
	improper fraction to a mixed number, e.g. seeing that $\frac{7}{5}$ is the same as 1 whole one and $\frac{2}{5}$			
1	of another whole one			
•	Recognise a mixed number with a fractional part in halves, thirds or quarters and convert			
	it to an improper fraction and vice-versa			
	Recognise a mixed number and convert it to an improper fraction and vice-versa			
	Use multiples of the denominator to identify how many whole ones can be made from the			
2	improper fraction and how many fractional parts remain, e.g. $\frac{21}{5}$ can be converted using			
	$\frac{5}{5}$ is 1, $\frac{10}{5}$ is 2, $\frac{15}{5}$ is 3, $\frac{20}{5}$ is 4 and $\frac{1}{5}$ remains so $\frac{21}{5} = 4\frac{1}{5}$			
3	Identify, name and write equivalent fractions of a given fraction by using multiplication			
	and division facts, e.g. $\frac{5}{7} = \frac{40}{56}$			
	Add fractions with denominators that are multiples of the same number where the answer			
	is less than 1, e.g. $\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$			
4	Add fractions with denominators that are multiples of the same number where the answer			
	is greater than 1, e.g. $\frac{2}{5} + \frac{9}{10} = \frac{4}{10} + \frac{9}{10} = \frac{13}{10} = 1\frac{3}{10}$; $1\frac{1}{4} + 3\frac{7}{8} = 1\frac{2}{8} + 3\frac{7}{8} = 4\frac{9}{8} = 5\frac{1}{8}$			
	Subtract fractions with denominators that are multiples of the same number within 1, e.g.			
	$\frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6}$			
5	6 3 6 6 6 Subtract fractions with denominators that are multiples of the same number that involve			
	Subtract fractions with denominators that are multiples of the same number that involve mixed numbers $a_{1}a_{1}^{1}a_{2}^{5} = 1^{2}a_{2}^{5} = 3^{3} = \frac{1}{2}a_{2}^{5}a_{1}^{2} = 5^{5}a_{2}^{2} = 2^{3} = 2^{1}a_{2}^$			
	mixed numbers, e.g. $1\frac{1}{3} - \frac{5}{6} = 1\frac{2}{6} - \frac{5}{6} = \frac{3}{6} = \frac{1}{2}; 5\frac{5}{6} - 3\frac{1}{3} = 5\frac{5}{6} - 3\frac{2}{6} = 2\frac{3}{6} = 2\frac{1}{2}$			
6	Add and subtract fractions with denominators that are multiples of the same number			
	where the answer is >1 and that involve mixed numbers			
7	Solve problems involving fractions			
	ry (2-D and 3-D Shape)			
Week 2				
Lesson	Lesson Focus			
	Identify whether a shape is regular or irregular by measuring its side lengths and angles			
1	Measure lengths to the nearest millimetre (from Year 3)			
	Distinguish between regular and irregular polygons based on reasoning about equal sides			
	and angles			
	Use the properties of rectangles to deduce related facts and find missing angles at a			
2	vertex when diagonals have been drawn and one angle is given Use the properties of rectangles to deduce related facts and find missing angles where			
	the diagonals bisect when one angle is given			
	Know that a 'net' is a flat shape that can be folded into a 3-D shape			
	Identify a net of a cube from a range of nets			
3	Identify a net of other cuboids from a range of nets			
	Identify a net of other prisms and pyramids from a range of nets			
Measurement (Volume)				
Week 3				
Lesson	Lesson Focus			
1	Measure and record liquid volume in ml and l (to 3 decimal places)			

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2	Calculate the area of rectangles (to build to volume of cuboids in next lesson)
	Understand that the units of liquid volume ml and units of solid volume cm ³ have the
3	same value
	Build cuboids using cm cubes
	Find the volume of different cuboids by counting cubes efficiently
	Use cm ³ blocks to build cuboids of a given volume
4	Recognise that a cube number is the product of three equal integers and can be written
4	using ³ notation, e.g. $4 \times 4 \times 4 = 4^3$
	Recognise and use cube numbers for 1 ³ , 2 ³ , 3 ³ , 4 ³ , 5 ³ and 10 ³
5	Use all four operations to solve problems involving volume using decimal notation,
Э	including scaling
Statistic	S
Week 4	
Lesson	Lesson Focus
	Solve comparison, sum and difference problems using information presented in all types
1	of graph including a line graph
	Complete, read and interpret information in tables
2	Calculate the mode of a set of values
3	Calculate the range of a set of values
4	Calculate the median for an odd number of values
4	Calculate the median for an even number of values
5	Identify when it is appropriate to use mode, median and range
Problem	n Solving Including Bar Modelling
Week 5	
Lesson	Lesson Focus
	Solve missing number problems involving all four operations (arithmetic)
1	G1 – single step
	G2 – multi-step
2	Solve missing number problems involving all four operations (word problems)
	G1 – single step
	G2 – multi-step
3	Solve problems involving multiplication and division, including scaling by simple fractions
5	and problems involving simple rates
4	Solve problems involving fractions
5	Solve problems involving fractions
	Learning Check Up To This Point

Summer 1 – 6 weeks

Starters

- Identify the value of each digit to three decimal places
- Find 0.01, 0.1, 1, 10, 100, 1000 and other powers of 10 more or less than a given number
- 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
- Continue to read, write and convert time between analogue and digital 12 and 24-hour clocks
- Describe positions on the first quadrant of a coordinate grid
- Plot specified points on the first quadrant of the coordinate grid
- Identify, describe and represent the position of a shape following a translation
- Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place)
- Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places)
- Round decimals with two decimal places within a calculation to an appropriate power of 10 e.g. 267.62 + 34.78 rounds to 270 + 30
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- Establish whether a number up to 100 is prime and recall prime numbers up to 19
- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- Use partitioning to double or halve any number, including decimals to two decimal places
- Recall and use multiplication facts up to 12 × 12 and related division facts
- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
- Recognise and use square (²) and cube (³) numbers, and notation

	Place Value		
	, 2 and 3		
Lesson	Lesson Focus		
1	Read, write, compare and order numbers to 1,000,000 and determine the value of each		
	digit		
2	Count forwards or backwards in steps of powers of 10 for any given number up to		
	Identify, represent and estimate numbers on a number line from 0 to 100,000 where the		
3	number line has no demarcations		
	Identify, represent and estimate numbers on a number line from 0 to 1,000,000 where the		
	number line has no demarcations		
	Identify, represent and estimate numbers up to 100,000 on a number line where the		
4	starting point is a number other than 0 (e.g. 50,000 to 75,000)		
	Identify, represent and estimate numbers up to 1,000,000 on a number line where the		
	starting point is a number other than 0 (e.g. 600,000 to 950,000)		
5	Round any number up to 1,000,000 to the nearest 10,000		
	Round any number up to 1,000,000 to the nearest 100,000		
	Interpret negative numbers in context, count on and back with positive and negative		
6	whole numbers, including through zero		
	Continue to order temperatures including those below 0°C		
	Read Roman numerals using the symbols I, V, X, L, C, D, M where subtracting of the		
-	symbols (e.g. a lower value symbol in front of a higher value one such as IX, CM) is not		
7			
	Read Roman numerals using the symbols I, V, X, L, C, D, M in any order		
	Read Roman numerals to 1,000 (M); recognise years written as such		
	Count forwards and backwards in decimal thousandths (0.001) including where ones		
8	boundaries are crossed, e.g. 5.998, 5.999, 6, 6.001, 6.002		
	Describe and extend number sequences where the step size is in thousandths, e.g. 5.742,		
	5.747, 5.752 (step size 0.005)		
9	Compare and order numbers with up to 3 decimal places		
10	Correctly place multiples of one thousandth on a number line where hundredths are		
	marked but not labelled		

11	Round decimals with two decimal places to the nearest whole number and to one decimal place
12	Multiply/divide whole numbers and decimals by 10, 100 and 1,000
	ement and Statistics
Week 3	
Lesson	Lesson Focus
1	Convert between different units of time using an appropriate strategy e.g. How many hours are there in a year? How many hours are there in a fortnight? How many full weeks is 337 days?
2	Understand and use approximate equivalences between metric and imperial measuresusing a conversion graph:1 inch ≈ 2.54 cm1 foot ≈ 30 cm1 lb ≈ 500 g1 oz ≈ 30 g
3	1 pint ≈ 0.6 litres1 gallon ≈ 4.5 litresUnderstand and use approximate equivalences between metric and imperial measuresusing conversion facts:1 inch ≈ 2.54 cm1 foot ≈ 30 cm1 yard ≈ 90 cm1 lb $\approx 500g$ 1 oz $\approx 30g$ 1 pint ≈ 0.6 litres1 gallon ≈ 4.5 litres
Geomet	ry
Week 4 Lesson	Lesson Focus
1	Know angles are measured in degrees: estimate (and measure) and compare acute, obtuse and reflex angles
2	Draw given angles, and measure them in degrees (°)
	Identify:
3	- angles at a point and one whole turn (total 360°) - angles at a point on a straight line and half a turn (total 180°) - other multiples of 90°
4	Use the properties of rectangles to deduce related facts and find missing lengths and angles
5	Plot points to complete shapes on the first quadrant of the coordinate grid Identify, describe and represent the position of a shape following a reflection, using the appropriate language, and know that the shape has not changed
Additio	n and Subtraction
Week 5	
Lesson	Lesson Focus
1	Add decimals with up to two decimal places including pairs of numbers with different amounts of digits, e.g. 154.7 + 68.56 Subtract decimals with up to two decimal places including pairs of numbers with different amounts of digits, e.g. 245.3 – 72.64
2	Choose an appropriate strategy to solve addition calculations based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) Select a mental strategy appropriate for the numbers involved in the calculation
3	Choose an appropriate strategy to solve subtraction calculations based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) Select a mental strategy appropriate for the numbers involved in the calculation
4	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Measure/calculate the perimeter of composite rectilinear shapes <i>(context)</i>
5	Solve addition and subtraction problems involving missing numbers
Multipli	cation
Week 6 Lesson	Lesson Focus
Lesson 1	Lesson Focus Multiply a 4 digit by a two-digit number using a formal written method 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

2	Choose an appropriate strategy to solve multiplication calculations based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	
з	Use estimation/inverse to check answers to calculations; determine, in the context of a	
5	problem, an appropriate degree of accuracy	
	Solve problems involving multiplication including using their knowledge of factors and	
	multiples, squares and cubes	
4	Solve problems involving multiplication and division, including scaling by simple fractions	
	and problems involving simple rates (include measures contexts)	
Learning Check Up To This Point		

Summer 2 – 6 weeks

Starters

•	• Recall and use multiplication facts up to 12 × 12 and related division facts

- Use knowledge of place value and multiplication facts to divide related decimal numbers where the dividend is scaled down e.g. $3.2 \div 8 = 0.4$
- Use knowledge of place value and multiplication facts to divide related decimal numbers where the dividend and divisor are scaled down e.g. $3.2 \div 0.8 = 4$
- Add and subtract fractions with denominators that are the same and that are multiples of the same number (using diagrams)
- Write statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)
- Continue to read, write and convert time between analogue and digital 12 and 24-hour clocks
- Use knowledge of place value and multiplication facts to divide related larger numbers e.g. $6,300 \div 9 = 700$

Division Week 1	Division Week 1			
Lesson	Lesson Focus			
1	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			
2	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 Estimate division by rounding to the nearest multiple of 10, 100 or 1,000 of the divisor and using related facts e.g. $3,452 \div 6 \approx 3,600 \div 6$			
3	Divide a three-digit number by a one-digit number using a partitioning strategy e.g. 942 \div 6 becomes (600 \div 6) + (300 \div 6) + (42 \div 6)			
4	Divide a three-digit number by a one-digit number using a partitioning strategy e.g. $942 \div 6$ becomes $(600 \div 6) + (300 \div 6) + (42 \div 6)$ Estimate division by rounding to the nearest multiple of 10, 100 or 1,000 of the divisor and using related facts e.g. $3,452 \div 6 \approx 3,600 \div 6$			
5	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)			
Fraction Week 2	Fractions			
Lesson	Lesson Focus			
1	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths			
2	Compare and order fractions whose denominators are all multiples of the same number (including on a number line)			
3	Recognise mixed numbers and improper fractions and convert from one form to the other			
4	Use concrete materials or pictorial representations to multiply proper fractions by whole numbers where the answer is less than 1, e.g. $\frac{1}{7} \times 4 = \frac{4}{7}$ Use concrete materials or pictorial representations to multiply proper fractions by whole numbers where the answer is greater than 1, e.g. $\frac{3}{7} \times 4 = \frac{12}{7} = 1\frac{5}{7}$			
5	Use partitioning to multiply mixed numbers by whole numbers where the fractional part of the answer is less than 1, e.g. $3\frac{1}{5} \times 4 = (3 \times 4) + (\frac{1}{5} \times 4) = 12\frac{4}{5}$ Use partitioning to multiply mixed numbers by whole numbers where the fractional part of the answer is greater than 1, e.g. $3\frac{4}{5} \times 7 = (3 \times 7) + (\frac{4}{5} \times 7) = 21\frac{28}{5} = 21 + 5\frac{3}{5} = 26\frac{3}{5}$			
Percentages				
Week 3				
Lesson 1	Lesson Focus Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal			
2	For halves, quarters, fifths and tenths give the equivalent percentage and vice versa			

	Solve problems which require knowing percentage and decimal equivalents halves,
	quarters, fifths and tenths
	For fractions with a denominator which is a multiple of 10 or 25, give the equivalent
3	percentage and vice versa
5	Solve problems which require knowing percentage and decimal equivalents of fractions
	with a denominator which is a multiple of 10 or 25
	Find percentages of amounts where they are equivalent to halves, quarters, fifths, tenths
4	or fractions with a denominator which is a multiple of 10 or 25
4	Solve problems which require knowing percentage and decimal equivalents of halves,
	quarters, fifths, tenths or fractions with a denominator which is a multiple of 10 or 25
5	Solve problems involving fractions and percentages
Statistic	S
Week 4	
Lesson	Lesson Focus
1	Complete and interpret information in a variety of sorting diagrams (including those used
•	to sort properties of numbers and shapes)
	Complete, read and interpret information in timetables
2	Continue to read, write and convert time between analogue and digital 12 and 24-hour
	clocks
3	Complete, read and interpret information in tables
	Complete, read and interpret information in tables
4	Solve comparison, sum and difference problems using information presented in all types
	of graph including
	a line graph
5	Calculate and interpret the mode, median and range
Measur	ement
Week 5	
Lesson	Lesson Focus
	Use, read and write standard units of mass
1	Solve problems involving decimals to three places (converting between units of metric
	5
2	
3	
4	
5	Estimate (and calculate) volume ((e.g., using 1 cm ³ blocks to build cuboids (including cubes)) and capacity (e.g. using water)
2 3 4	measure) Use, read and write standard units of length Solve problems involving decimals to three places (converting between units of metric measure) Use all four operations to solve problems involving measure using decimal notation, including scaling Calculate and compare the area of rectangle, use standard units square centimetres (cm ²) and square metres (m ²)