Year 3 Mathematics Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1	Unit 1	Unit 5 Multiplication tables (3× and 4×)	Unit 10 Place value, addition and subtraction	Unit 15 2-D shape	Unit 20 Addition and	Unit 25 Place value
Week 2	Place value, addition and subtraction	Unit 6 Multiplication	Unit 11	Unit 16 Addition, subtraction and statistics	subtraction	Unit 26 Calculation
Week 3	Unit 2 Length and perimeter	Unit 7 Division	Multiplication	Unit 17 Fractions	Unit 21 Multiplication and division	Unit 27 Fractions
Week 4	Unit 3 Statistics	Unit 8 Time	Unit 12 Fractions	Unit 18 Position & direction	Unit 22 2-D shape	Unit 28 Statistics
Week 5	Unit 4 Addition and subtraction	Unit 9 3-D shape	Unit 13 Division	Unit 19 Time	Unit 23 Decimal place value	Unit 29 Time
Week 6		Assess and review week	Unit 14 Volume, capacity and mass	Assess and review week	Unit 24 3-D shape	Assess and review week

Year 3 Expectations – Sequence of Learning

<u>Autumn 1 – 6 weeks</u>

	and Place Value	Addition and Subtraction	
Weeks 1			
Lesson	Lesson Focus		
1	Exchange 10 ones for 1 ten and vice versa		
	Exchange 10 tens for 1 hundred and vice		
		00 using concrete materials such as base 10	
2	apparatus		
	Partition a three-digit number into hund		
2		00 using models such as place value counters	
3	and arrow cards.		
	Partition a three-digit number into hund		
4	•	000 when represented using the same concrete	
	materials saying which numbers are grea		
5		before and after numbers with up to three-digits	
	and round the numbers to the nearest te		
6		nd one hundred more/ one hundred less than a	
	given number with up to three-digits with		
7		nd tens mentally with no boundaries crossed	
	Identify and describe the rule (addition of		
8	calculating the difference between two a	-	
	Extend number sequences by using the i		
9	•	uire mental partitioning e.g. 37 + 25 and use this	
	strategy where appropriate		
10	-	equire mental partitioning e.g. 42 – 17 and use	
	this strategy where appropriate		
	and Perimeter	2-D Shape	
Week 3			
	Lange Francis		
Lesson	Lesson Focus		
	Accurately draw 2-D shapes including wi	th specific properties using squared and isometric	
Lesson	Accurately draw 2-D shapes including wind paper	th specific properties using squared and isometric	
Lesson	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m		
Lesson 1	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o		
Lesson 1	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o Measure lengths in mm	difference between, lengths.	
Lesson 1 2	Accurately draw 2-D shapes including wind paper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of	difference between, lengths.	
Lesson 1 2	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o Measure lengths in mm Add and subtract, including finding the o Develop an understanding of perimeter	difference between, lengths. difference between, lengths using straws	
Lesson 1 2 3	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o Measure lengths in mm Add and subtract, including finding the o Develop an understanding of perimeter Use counting to calculate the perimeter	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper	
Lesson 1 2 3	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o Measure lengths in mm Add and subtract, including finding the o Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper	
Lesson 1 2 3 4 5	Accurately draw 2-D shapes including wind paper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper	
Lesson 1 2 3 4 5 Statistic	Accurately draw 2-D shapes including wind paper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper	
Lesson 1 2 3 4 5 Statistic Week 4	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o Measure lengths in mm Add and subtract, including finding the o Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper	
Lesson 1 2 3 4 5 Statistic	Accurately draw 2-D shapes including wi paper Measure lengths in cm and m Add and subtract, including finding the o Measure lengths in mm Add and subtract, including finding the o Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh s Lesson Focus	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper ere the lengths of sides are given	
Lesson 1 2 3 4 5 Statistic Week 4 Lesson	Accurately draw 2-D shapes including wipaper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh s Lesson Focus Derive and use addition and subtraction	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper	
Lesson 1 2 3 4 5 Statistic Week 4	Accurately draw 2-D shapes including wipaper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh s Lesson Focus Derive and use addition and subtraction grid etc.	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper ere the lengths of sides are given facts for 100 using bead strings, a blank 10 by 10	
Lesson 1 2 3 4 5 Statistic Week 4 Lesson 1	Accurately draw 2-D shapes including wipaper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh s Lesson Focus Derive and use addition and subtraction grid etc. Recognise that when calculating addition	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper ere the lengths of sides are given facts for 100 using bead strings, a blank 10 by 10 in facts to 100 the 1s total 10 and the tens total 90	
Lesson 1 2 3 4 5 Statistic Week 4 Lesson	Accurately draw 2-D shapes including wipaper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh s Lesson Focus Derive and use addition and subtraction grid etc. Recognise that when calculating addition Collect data in a frequency table and use	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper ere the lengths of sides are given facts for 100 using bead strings, a blank 10 by 10 in facts to 100 the 1s total 10 and the tens total 90 e the data to draw a bar chart with a scale in ones.	
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Lesson 1 2 3 4 5 Statistic Week 4 Lesson 1 2	Accurately draw 2-D shapes including wipaper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh S Lesson Focus Derive and use addition and subtraction grid etc. Recognise that when calculating addition Collect data in a frequency table and use Use data in a frequency table to draw a l Answer questions using data contained if Solve one-step questions (for example, '	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper ere the lengths of sides are given facts for 100 using bead strings, a blank 10 by 10 in facts to 100 the 1s total 10 and the tens total 90 e the data to draw a bar chart with a scale in ones. bar chart with a scale in twos. in a bar chart. How many more?' and 'How many fewer?') using	
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Lesson 1 2 3 4 5 Statistic Week 4 Lesson 1 2 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Accurately draw 2-D shapes including wipaper Measure lengths in cm and m Add and subtract, including finding the of Measure lengths in mm Add and subtract, including finding the of Develop an understanding of perimeter Use counting to calculate the perimeter Use counting to calculate the perimeter Calculate the perimeter of a polygon wh S Lesson Focus Derive and use addition and subtraction grid etc. Recognise that when calculating addition Collect data in a frequency table and use Use data in a frequency table to draw a b Answer questions using data contained if Solve one-step questions (for example, ' information presented in a bar chart or t Present and interpret data using pictogra (including half symbols).	difference between, lengths. difference between, lengths using straws of a polygon drawn on squared cm paper of a polygon drawn on squared cm paper ere the lengths of sides are given facts for 100 using bead strings, a blank 10 by 10 in facts to 100 the 1s total 10 and the tens total 90 e the data to draw a bar chart with a scale in ones. bar chart with a scale in twos. in a bar chart. How many more?' and 'How many fewer?') using able	

Addition and Subtraction		
Wees 5 and 6		
Lesson	Lesson Focus	
1	Add 2 two-digit numbers using formal written methods with exchange from ones into tens	
2	Add 2 three-digit numbers using formal written methods with exchange from ones into tens	
3	Add 2 three-digit numbers using formal written methods with exchange from ones into tens	
4	Choose an appropriate strategy for a given addition calculation	
5	Subtract 2 two-digit numbers using formal written methods with exchange from tens into ones	
6	Subtract 2 three-digit numbers using formal written methods with exchange from tens into ones	
7	Subtract 2 three-digit numbers using formal written methods with exchange from tens into ones	
8	Choose an appropriate strategy for a given subtraction calculation	
9	Use a formal written method of addition to make a given criteria, e.g. choose from a set of given numbers to make a total Use a formal written method of subtraction to make a given criteria, e.g. choose from a	
	set of given numbers to make a difference	
Learning Check Up To This Point		

<u>Autumn 2 – 5 weeks</u>

Multiplication Tables (3× and 4×) Week 1		
Lesson	Lesson Focus	
1	Use arrays to understand the multiplication facts for the 3 and 4 multiplication tables (including commutativity) Identify relationships within a multiplication square Derive the 4 multiplication table from the 2 multiplication table by using doubling strategies	
2	Understand the relationship between arrays and repeated addition Represent multiplication as repeated addition on a number line	
3	Derive facts from the 3 and 4 multiplication tables using known facts from the 1, 2, 5 and 10 multiplication tables	
4	Extend number sequences by using an identified rule (counting in 3s, 4s, 10s and 100s)	
5	Use single Venn and one criterion Carroll diagrams to compare and sort numbers	
Mental Week 2	and Written Multiplication	
Lesson	Lesson Focus	
1	Use partitioning to derive doubles of all numbers to 50	
2	Use an array to represent a teens number multiplied by a single digit number and partition the array into tens and ones to support calculating the product	
3	Use partitioning to calculate a teens number multiplied by a single digit number (grid method)	
4	Use partitioning to calculate a teens number multiplied by a single digit number (grid method)	
5	To solve routine and non-routine problems involving multiplication	
Mental	and Written Division	
Week 3		
Lesson	Lesson Focus	
1	Understand division as sharing and grouping	
2	Use concrete or pictorial representations to derive the division facts related to the multiplication facts that they know	

3	Use concrete materials to show division as repeated subtraction for numbers beyond the
5	multiplication facts that they know
4	Use concrete materials to show division as repeated subtraction for numbers beyond the
4	multiplication facts that they know using greater multiples of the divisor
5	Use concrete materials to show division as repeated subtraction for numbers beyond the
5	multiplication facts that they know including those that have a remainder
Time	
Week 4	
Lesson	Lesson Focus
	Tell and write time on an analogue clock to o'clock, quarter past (15 minutes past), half
1	past (30 minutes past) and quarter to (15 minutes to)
	Tell and write the time on an analogue clock to 5 minutes – past and to
2	Tell and write the time on an analogue clock to 5 minutes – past and to
3	Tell and write the time on an analogue clock to the nearest minute – past
4	Tell and write the time on an analogue clock to the nearest minute – to
	Know that there are 60 seconds in a minute
5	Record time in seconds and minutes
	Compare two time intervals which are in the same unit
3-D Sha	pe service s
Week 5	
Lesson	Lesson Focus
1	Identify and describe the properties of 3-D shapes, including the number of edges, faces
I	and vertices
2	Use construction materials such as Clixi or Polydron to make 3-D shapes
3	Make the skeletons of 3-D shapes using straws and Playdoh
4	Identify horizontal and vertical lines
5	Use single Venn and one criterion Carroll diagrams to compare and sort 3-D shapes
	Learning Check Up To This Point

<u>Spring 1 – 6 weeks</u>

Number Week 1	and Place Value	Addition and Subtraction
Lesson	Lesson Focus	
	Identify the multiples of 100 immediate	y before and after a given number
1	Round numbers with up to three-digits	to the nearest hundred, e.g. 356 rounds to 400
	Add a number up to three-digits and ter	ns where the tens and hundreds digit changes,
2	e.g. ten more than 397	
2		es where the ones, tens and hundreds digit
	changes, e.g. one more than 499	
		d tens where the tens and hundreds digit
3	changes, e.g. ten less than 407	
	changes, e.g. one less than 500	d ones where the ones, tens and hundreds digit
		uire mental compensation e.g. 129 + 49 and use
4	this strategy where appropriate	ulle mental compensation e.g. 129 + 49 and use
		equire mental compensation e.g. 175 - 39 and
5	use this strategy where appropriate	equire mental compensation e.g. 175 - 55 and
Multipli		
Weeks 2		
Lesson	Lesson Focus	
1	Use partitioning to derive doubles of all	numbers to 100.
2	Use arrays to understand the multiplicat	ion and division facts for the 8 multiplication table
	Derive the 8 multiplication table from th	e 4 multiplication table
3	Use Venn and Carroll diagrams to comp	
4		ect of multiplying a two-digit number by 10
	Describe the effect of multiplying a two-	
5	Multiply a multiple of 10 by a one-digit	
c		number multiplied by a single digit number using
6	grid method	a calculation
	Use rounding to estimate the answer to	number multiplied by a single digit number using
	grid method	number multiplied by a single digit number using
7	Within known tables, use partitioning to	multiply T1 by a one-digit number
	Use rounding to estimate the answer to	
8	Use compensation to multiply 19 by a si	
9	Solve positive integer scaling problems	
10	Solve correspondence problems in which	n n objects are connected to m objects. (finding
	all possibilities)	
Fraction	S	
Week 4		
Lesson	Lesson Focus	
1		jects or quantity (with small denominators) (on a bar model and demarcated number line)
2	Estimate the position of a fraction on a r	
		ons (with denominators of ten or less) of a set of
	objects, e.g. $\frac{1}{7}$ of 63	
3	,	fractions (with denominators of ten or less) of a
	set of objects, e.g. $\frac{2}{7}$ of 63	factions (with denominators of ten of less) of a
	/	adal to find unit fractions of a set of this sta
		odel, to find unit fractions of a set of objects,
4	e.g. $\frac{1}{3}$ of 51	
	2	odel, to find non-unit fractions of a set of objects,
	e.g. $\frac{2}{3}$ of 51	
5	Solve problems involving fractions	

Division	
Week 5	
Lesson	Lesson Focus
1	Use partitioning to derive and use halves of multiples of 10 where the tens digit is odd
	Use partitioning to derive and use halves of all even numbers to 100
2	Use a horizontal number line to show division as repeated subtraction including numbers
2	beyond the multiplication facts that they know
3	Use a vertical number line to show division as repeated subtraction including numbers
J	beyond the multiplication facts that they know using greater multiples of the divisor
	Use a vertical number line to show division as repeated subtraction for numbers beyond
4	the multiplication facts that they know using greater multiples of the divisor (including
	remainders)
5	Use division to identify unlabelled marks on a scale
5	Read different scales to the nearest whole unit
Volume,	, capacity and mass
Week 6	
Lesson	Lesson Focus
1	Estimate, measure and compare the volume/capacity of different containers
I	Find the difference between the volume/capacities of containers
2	Measure and add the volume/capacity of different containers
3	Estimate, measure and compare the mass of different objects
3	Find the difference between the masses of objects
4	Measure and add the mass of different objects
	Learning Check Up To This Point

<u>Spring 2 – 5 weeks</u>

2-D Sha	pe	
Week 1		
Lesson	Lesson Focus	
	Recognise angles as a description of a turn	
1	Recognise quarter, half, three-quarter and full turns from different starting points as an	
	appropriate number of right angles	
2	Recognise where sides meet at a vertex in a shape that an angle is created	
2	Recognise a drawn right angle when presented in any orientation	
3	Identify pairs of perpendicular and parallel lines	
4	Sort 2-D shapes according to their properties - Venn with two intersecting sets and two	
4	criteria Carroll diagrams (perpendicular, parallel, right angles)	
5	Draw 2-D shapes with specific properties (perpendicular, parallel, right angles)	
Addition	n and Subtraction Statistics	
Week 2		
Lesson	Lesson Focus	
	Add two numbers with three digits using formal written methods of columnar addition	
1		
1	Add two numbers with three digits using formal written methods of columnar addition	
1	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction	
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	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction	
2	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction with exchange from tens into ones and hundreds into tens, e.g. 426 – 357 Use rounding to estimate, and inverse to check, the answer to a calculation Solve problems, including missing number problems, using number facts, place value,	
	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction with exchange from tens into ones and hundreds into tens, e.g. 426 – 357 Use rounding to estimate, and inverse to check, the answer to a calculation	
2	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction with exchange from tens into ones and hundreds into tens, e.g. 426 – 357 Use rounding to estimate, and inverse to check, the answer to a calculation Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Present data using bar charts with a scale in fives or tens	
2	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction with exchange from tens into ones and hundreds into tens, e.g. 426 – 357 Use rounding to estimate, and inverse to check, the answer to a calculation Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Present data using bar charts with a scale in fives or tens Select the most appropriate scale when representing data in a bar chart	
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2	Add two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds, e.g. 468 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation Subtract numbers with three digits using formal written methods of columnar subtraction with exchange from tens into ones and hundreds into tens, e.g. 426 – 357 Use rounding to estimate, and inverse to check, the answer to a calculation Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Present data using bar charts with a scale in fives or tens Select the most appropriate scale when representing data in a bar chart	

Fraction	S
Weeks 3	and 4
Lesson	Lesson Focus
1	Show practically or pictorially that a fraction is one whole number divided by another
	Use pictorial representations, including the number line, to compare and order fractions
2	with the same denominator
	Use pictorial representations to compare and order unit fractions
3	Use concrete and pictorial representations to recognise where fractions are equivalent
4	Add fractions to make one whole
4	Subtract fractions from one whole
5	Add fractions with the same denominator within one whole
6	Subtract fractions with the same denominator within one whole
7	Add and subtract fractions with the same denominator within one whole
Position	and Direction linked to Fractions
Week 4	
Lesson	Lesson Focus
1	Describe positions on a square grid labelled with letters and numbers
1 2	Describe positions on a square grid labelled with letters and numbers Use a grid to describe position, direction and movement in a straight line
-	
2	Use a grid to describe position, direction and movement in a straight line
2	Use a grid to describe position, direction and movement in a straight line
2 3 Time	Use a grid to describe position, direction and movement in a straight line
2 3 Time Week 5 Lesson	Use a grid to describe position, direction and movement in a straight line Use a grid to describe position, direction, movement and turn Lesson Focus Tell the time on an analogue clock for minutes past and to, e.g. 33 minutes past 4 and 27
2 3 Time Week 5	Use a grid to describe position, direction and movement in a straight line Use a grid to describe position, direction, movement and turn Lesson Focus Tell the time on an analogue clock for minutes past and to, e.g. 33 minutes past 4 and 27 minutes to 5
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2 3 Time Week 5 Lesson 1 2	Use a grid to describe position, direction and movement in a straight line Use a grid to describe position, direction, movement and turn Lesson Focus Tell the time on an analogue clock for minutes past and to, e.g. 33 minutes past 4 and 27 minutes to 5 Tell the time on a digital clock to the nearest minute and know whether this is before or after midday
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2 3 Time Week 5 Lesson 1 2 3 4	Use a grid to describe position, direction and movement in a straight line Use a grid to describe position, direction, movement and turn Lesson Focus Tell the time on an analogue clock for minutes past and to, e.g. 33 minutes past 4 and 27 minutes to 5 Tell the time on a digital clock to the nearest minute and know whether this is before or after midday Solve time problems working within the hour boundary Solve time problems working across the hour boundary
2 3 Time Week 5 Lesson 1 2 3	Use a grid to describe position, direction and movement in a straight line Use a grid to describe position, direction, movement and turn Lesson Focus Tell the time on an analogue clock for minutes past and to, e.g. 33 minutes past 4 and 27 minutes to 5 Tell the time on a digital clock to the nearest minute and know whether this is before or after midday Solve time problems working within the hour boundary

Summer 1 – 6 weeks

Addition	n and Subtraction
Weeks 1	and 2
Lesson	Lesson Focus
1	Add more than two numbers with three digits using formal written methods of columnar addition with exchange from ones into tens and tens into hundreds including when the 'carried' amount has more than one ten e.g. 326 + 147 + 219. Include adding more than two numbers with different amounts of digits, e.g. 268 + 34 + 356 Use rounding to estimate, and inverse to check, the answer to a calculation
2	Identify missing digits in columnar addition calculations
3	Subtract numbers with different numbers of digits up to three digits, using formal written methods of columnar subtraction with exchange from tens into ones and hundreds into tens, e.g. 334 – 68 using the place value columns to set the calculation out correctly. Include examples with zero used as a place holder, e.g. 304 – 168 Use rounding to estimate, and inverse to check, the answer to a calculation
4	Identify missing digits in columnar subtraction calculations
5	Recognise addition calculations that require bridging through a multiple of 10 or 100 efficiently
6	Recognise subtraction calculations that require bridging through a multiple of 10 or 100 efficiently
7	Recognise calculations that require counting on mentally to find the difference
8	Choose an appropriate strategy to solve a calculation based upon the numbers involved
	cation and Division
	2, 3 and 4
Lesson	Lesson Focus
1	Describe and extend number sequences involving counting on or back in different steps (including 4, 8, 50 and 100) Identify and describe the rule in a number sequence by calculating the step size between non-adjacent numbers in the sequence
2	Use the grid method to solve a two-digit by one-digit multiplication Use rounding to estimate the answer to a calculation
3	Use the grid method to solve multiplication problems including positive integer scaling problems
4	Use rounding to estimate the answer to a calculation
4	Identify missing numbers in grid method calculations
5	Choose an appropriate strategy to solve a multiplication calculation based upon the numbers involved
6	Use a vertical number line to show division as repeated subtraction for numbers beyond the multiplication facts that they know using repeated greater multiples of the divisor (include remainders) Use rounding to estimate the answer to a calculation
7	Use a vertical number line to show division as repeated subtraction for numbers beyond the multiplication facts that they know using efficient greater multiples of the divisor (include remainders) Use rounding to estimate the answer to a calculation
8	Solve division problems that require the interpretation of remainders
9	Choose an appropriate strategy to solve a division calculation based upon the numbers involved
2-D Sha Week 4	pe
Lesson	Lesson Focus
1	Identify whether an angle is greater or less than a right angle
2	Accurately draw 2-D shapes with specific properties (including angles)
3	Measure the perimeter of simple polygons by measuring each side using a ruler and calculating the total

Decimal Place Value		
Weeks 5 and 6		
Lesson	Lesson Focus	
1	Use concrete representations, e.g. straws, to understand the relationship between fractional tenths and decimal tenths Identify the value of each digit to one decimal place	
2	Know the decimal point separates whole numbers and decimal fractionsUse concrete representations, e.g. place value counters, to understand the relationship	
2	between fractional tenths and decimal tenths	
3	Divide a one-digit number by 10 and describe the effect using a place value chart.	
4	Count up and down in fractional and decimal tenths	
5	Identify fractional and decimal tenths on number lines	
6	Compare numbers with one decimal place	
7	Order numbers with one decimal place	
3-D Shape		
Week 6	Week 6	
Lesson	Lesson Focus	
1	Recognise and describe 3-D shapes in different orientations, e.g. Which of these shapes has five faces?	
2	2 Sort 3-D shapes according to their properties - Venn with two intersecting sets and two criteria Carroll diagrams	
	Learning Check Up To This Point	

Summer 2 – 5 weeks

Place Va	Place Value		
Week 1			
Lesson	Lesson Focus		
1	Read Roman numerals from I to XII		
2	Estimate and place numbers on a range of number lines		
3	Estimate and place numbers on a range of number lines		
4	Read scales for mass, volume/capacity and temperature		
5	Solve non-routine problems involving rounding		
Calculat	ion		
Week 2			
Lesson	Lesson Focus		
1	Estimate the answer to a calculation (all four operations)		
2	Choose and use an appropriate strategy to solve a variety of calculations.		
3	Solve one and two step problems involving money		
4	Use bar modelling to solve addition and subtraction problems		
4	Use inverse operations to check answers		
5	Use bar modelling to solve multiplication and division problems		
	Use inverse operations to check answers		
Fraction	IS		
Week 3			
Lesson	Lesson Focus		
1	Identify fractions with the same denominators on a number line (marked and unmarked)		
	Compare and order fractions with the same denominators		
2	Compare and order unit fractions such as $\frac{1}{3'} \frac{1}{4'} \frac{1}{2}$ and $\frac{1}{6}$ by positioning them including on a		
2	number line		
2	Recognise and show, using diagrams, equivalent fractions with small denominators –		
3	applying in different contexts		
	Use pictorial representations, e.g. bar model, to find non-unit fractions of a set of objects		
4	beyond multiplication table knowledge (using a multiplication grid), e.g. $\frac{3}{7}$ of 56		

5	Use pictorial representations, e.g. bar model, to find non-unit fractions of a set of objects
	beyond multiplication table knowledge (using a multiplication grid), e.g. $\frac{3}{7}$ of 56
Statistics	
Week 4	
Lesson	Lesson Focus
1	Pose a question and identify what data to collect to answer the question
-	Collect and record data
2	Present data in a bar chart with an appropriate scale
3	Present data in a pictogram with an appropriate key
4	Use and interpret data from bar charts and pictograms to answer questions
5	Compare and evaluate representations of data
	Solve problems involving statistics (convert between different representations, incomplete
5	sets of data, matching tables to graphs etc.)
Time	
Week 5	
Lesson	Lesson Focus
1	Record and compare time in terms of seconds, minutes and hours
2	Tell and write the time from an analogue clock including using Roman numerals
3	Tell and write the time from a 12 hour digital clock
4	Solve problems involving time
5	Solve problems involving time
Learning Check Up To This Point	