

## Mathematics Mastery curriculum map

### Autumn term

Assessment maps outline the content covered in every New PUMA test and show which content from each Mathematics Mastery unit and NC content domain is assessed.

The units at the top of each table denote prior learning.

MM unit	NC Content Domain ref	Year 1 Autumn	Marks
<b>Prior year content</b>			
Early years goals	ELGN	Count reliably with numbers from 1 to 20	3
	ELGN	Using quantities and objects, they add and subtract two one-digit numbers and count on or back to find the answer	1
	ELGSSM	Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems	2
	ELGSSM	Use everyday language to talk about position to compare objects	2
	ELGSSM	Use mathematical language to describe shapes	1
<b>Current year content</b>			
1	1N2b	Given a number, identify one more and one less	3
2	1C1	Represent and use number bonds and related subtraction facts [within 10]	3
	1C4	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems	4
3	1G1a	Recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]	5
	1G1b	Recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	1
4	1N2c	Count, read and write numbers from 1 to 20 in numerals and words	1
5	1C2a	Add and subtract one-digit and two-digit numbers to 20, including zero [this test only up to 10]	3
<b>Stretch content leading into following term: Q25</b>			
6	1M4c	Recognise and use language relating to days of the week	1

MM unit	NC Content Domain ref	Year 2 Autumn	Marks
<b>Prior year content</b>			
Y1: 3	1G1a	Recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]	1
	1G1b	Recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	1
Y1:5	1C1	Represent and use number bonds and related subtraction facts within 20	2
Y1: 7	1C2a	Add and subtract one-digit and two-digit numbers to 20, including zero	3
Y1: 8	1N1b	Count in multiples of twos, fives and tens	3
Y1: 10	1F1a	Recognise, find and name a half as one of two equal parts of an object, shape or quantity	1
Y1: 11	1M1	Compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]	1
	1M2	Measure and begin to record the following: lengths and heights	1
Y1: 12	1N2a	Count, read and write numbers to 100 in numerals	2
<b>Current year content</b>			
1	2N1	Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward or backward	1
	2N2b	Compare and order numbers from 0 up to 100; use <, > and = signs	1
	2N3	Recognise the place value of each digit in a two-digit number (tens and ones)	4
2	Covered in later terms in Year 2		
3	2C4	Solve problems with addition and subtraction: applying their increasing knowledge of mental and written methods	1
4	Covered in later terms in Year 2		
5	2S1	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	2
	2S2a	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity	1
	2S2b	Ask and answer questions about totalling and comparing categorical data	1
6	2C6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	2
<b>Stretch content leading into following term: Q8,19</b>			
3	2C4	Solve problems with addition and subtraction: applying their increasing knowledge of mental and written methods	1
8	2F1a	Recognise, find, name and write fraction $\frac{3}{4}$ of a shape	1

MM unit	NC Content Domain ref	Year 3 Autumn	Marks
<b>Prior year content</b>			
Y1: 10	1F1b	Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	1
Y2: 1	2N1	Count in steps of 2, 3 and 5, from 0, and in tens from any number, forward or backward	2
Y2: 3	2C3	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems	1
Y2: 4	2M2	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)	1
Y2: 6	2C6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	1
Y2: 8	2F1a	Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	3
Y2: 9	2C4	Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods	3
Y2: 10	2M3a	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	2
Y2: 11	2G2a	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	2
	2G2b	Identify and describe the properties of 3-D shapes, including the number of vertices and faces	1
	2P2	Use mathematical vocabulary to describe movement, distinguishing between rotation as a turn and in terms of right angles for quarter turns (clockwise and anti-clockwise)	1
Y2: 14	2M2	Choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels	1
Y2: 15	2C1	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	1
	2C2a	Add and subtract numbers mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers	2
	2C9a	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	1
Y2: 16	2C8	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts	2
	3C6	Recall and use multiplication and division facts for the 3 and 4 8 multiplication tables	2
<b>Current year content</b>			
1	3N4	Identify, represent and estimate numbers using different representations	1

	3M9a	Add and subtract amounts of money to give change, using both pounds (£) and pence (p) in practical contexts	2
2	3N1b	Count from 0 in multiples of 4, 8, 50 and 100	1
	3N2a	Compare and order numbers up to 1000	1
	3N2b	Find 10 or 100 more or less than a given number	1
	3N3	Recognise the place value of each digit in a three-digit number (hundreds, tens and ones)	1
	3N6	Solve number problems and practical problems involving 3N1–3N5	2
3	3S1	Interpret and present data using bar charts, pictograms and tables	2
	3S2	Solve one-step and two-step questions [for example, ‘How many more?’ and ‘How many fewer?’] using information presented in scaled bar charts, pictograms and tables	1
4	3C1	Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds	3
	3C2	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	1
5	Covered in later terms in Year 3		
Stretch content leading into following term: Q12ii,35			
6	3C8	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects	1
12	3C6	Recall and use multiplication and division facts for the 8 multiplication table	12ii

MM unit	NC Content Domain ref	Year 4 Autumn	Marks
<b>Prior year content</b>			
Y2: 9	2C4	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods	1
Y2: 10	2M3a	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	1
Y2: 11	2G2a	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	1
Y2: 12	2N6	Use place values and number facts to solve problems	1
Y2: 15	2C2a	Add and subtract numbers mentally, including: adding three one-digit numbers	2
Y3: 2	3N3	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	1
	3N4	Identify, represent and estimate numbers using different representations	3
Y3: 3	3S1	Interpret and present data using bar charts, pictograms and tables	2
	3S2	Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts, pictograms and tables	1
Y3: 7	3C8	Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects	2
Y3: 9	3F1b	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	1
	3F1c	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	1
	3F2	Recognise and show, using diagrams, equivalent fractions with small denominators	2
Y3: 10	3G4b	Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	2
Y3: 11	3M2a	Measure lengths (m/cm/mm)	1
	3C4	Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction	2
<b>Current year content</b>			
1	4N1	Count in multiples of 6, 7, 9, 25 and 1000	1
	4N2a	Order and compare numbers beyond 1000	1
	4N3a	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)	3
	4N4a	Identify, represent and estimate numbers using different representations	1
	4N4b	Round any number to the nearest 10, 100 or 1000	2
	4N6	Solve number and practical problems that involve 4N1–4N5 and with increasingly large positive numbers	1

2	4C2	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	2
	4C3	Estimate and use inverse operations to check answers to a calculation	1
	4C4	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	2
3	4C6c	Recognise and use factor pairs and commutativity in mental calculations	1
	4C7	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	1
	4C8	Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as $n$ objects are connected to $m$ objects	3
4	Covered in later terms in Year 4		
<b>Stretch content leading into later term: Q36b,38</b>			
10	4M9	Calculate different measures, including money in pounds and pence	2

MM unit	NC Content Domain ref	Year 5 Autumn	Marks
<b>Prior year content</b>			
Y2: 3	2C2	Add and subtract numbers using concrete objects and pictorial representations, including: two two-digit numbers	1
Y3: 2	3N1b	Count from 0 in multiples of 4, 8, 50 and 100	1
	3N2a	Compare and order numbers up to 1000	2
	3N4	Identify, represent and estimate numbers using different representations	1
	3N6	Solve number problems and practical problems involving 3N1–3N5	2
Y3: 3	3S2	Solve one-step and two-step questions [for example, ‘How many more?’ and ‘How many fewer?’] using information presented in scaled bar charts, pictograms and tables	2
Y3: 5	3C4	Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction	2
Y3: 8	3M4f	Compare durations of events [for example, to calculate the time taken by particular events or tasks]	1
Y3: 9	3F2	Recognise and show, using diagrams, equivalent fractions with small denominators	1
Y3: 10	3G3b	Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	1
	3G4b	Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	1
Y4: 1	4N1	Count in multiples of 6, 7, 9, 25 and 1000	1
	4N4a	Identify, represent and estimate numbers using different representations	1
Y4: 2	4C4	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	1
Y4: 3	4C6a	Recall multiplication and division facts for multiplication tables up to $12 \times 12$	4
	4C7	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	1
	4C8	Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as $n$ objects are connected to $m$ objects	1
Y4: 4	4S2	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	1
Y4: 6	4F2	Recognise and show, using diagrams, families of common equivalent fractions	1
	4F4	Add and subtract fractions with the same denominator	2
Y4: 10	4F10b	Solve simple measure and money problems involving fractions and decimals to two decimal places	1
	4M5	Convert between different units of measurement [for example, kilometre to metre; hour to minute]	1

	4M9	Calculate different measures, including money in pounds and pence	3
Y4: 11	4G2a	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	1
Y4: 13	4N5	Count backwards through zero to include negative numbers	1
Y4: 14	5G3b	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	2
<b>Current year content</b>			
1	Covered in later terms in Year 5		
2	Covered in later terms in Year 5		
3	5S1	Complete, read and interpret information in tables, including timetables	4
4	5C5a	Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers	2
	5C5d	Recognise and use square numbers, and the notation for squared ( <sup>2</sup> )	1
	5C6a	Multiply and divide numbers mentally drawing upon known facts	1
	5C8b	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	2
5	5M7b	Calculate and compare the area of rectangles (including squares) and estimate the area of non-rectilinear shapes	3
<b>Stretch content leading into later terms: Q18,28,36</b>			
4	5C8b	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	3
6	5F2a	Recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements >1 as a mixed number	1
8	5M9b	Use all four operations to solve problems involving measure [for example, length] using decimal notation, including scaling	1



MM unit	NC Content Domain ref	Year 6 Autumn	Marks
<b>Prior year content</b>			
Y3: 2	3N1b	Count from 0 in multiples of 4, 8, 50 and 100	1
Y3: 4	3C2	Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction	1
Y3: 9	3F1b	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	1
	3F3	Compare and order unit fractions and fractions with the same denominators	1
Y3: 10	3G4b	Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	1
Y4: 1	4N6	Solve number and practical problems that involve 4N1–4N5 and with increasingly large positive numbers	1
Y4: 2	4C2	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	3
	4C3	Estimate and use inverse operations to check answers to a calculation	2
Y4: 5	4C6a	Recall multiplication and division facts for multiplication tables up to $12 \times 12$	3
Y4: 6	4F2	Recognise and show, using diagrams, families of common equivalent fractions	2
Y4: 10	4M2	Estimate different measures, including money in pounds and pence	1
	4M9	Calculate different measures, including money in pounds and pence	1
Y5: 1	5N3a	Determine the value of each digit in numbers up to 1,000,000	2
	5N6	Solve number problems and practical problems that involve 5N1–5N5	3
Y5: 2	5C2	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	1
Y5: 3	5M4	Solve problems involving converting between units of time	1
	5S2	Solve comparison, sum and difference problems using information presented in a line graph	4
Y5: 4	5C5a	Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers	1
	5C5b	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	1
	5C6a	Multiply and divide numbers mentally drawing upon known facts	1
	5C7b	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	1
Y5: 10	5M5	Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]	1

Y5: 12	6G2b	Describe simple 3-D shapes	2
<b>Current year content</b>			
1	6N6	Solve number problems and practical problems that involve 6N2–6N5	2
	6C4	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	1
2	6C5	Identify common factors, common multiples and prime numbers	1
	6C7a	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	1
	6C7c	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of short division where appropriate, interpreting remainders according to the context	2
3	6C8	Solve problems involving addition, subtraction, multiplication and division	3
4	6F2	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	1
	6F3	Compare and order fractions, including fractions $>1$	1
5	Covered in later terms in Year 6		
10	6R4	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples [using fractions covered in Y3 - tenths]	1
<b>Stretch content leading into following term: Q18,22,23,37</b>			
4	6F4	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	2
7	6F11	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	1
8	6M5	Use, read, write and convert between standard units, converting measurements of mass from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to three decimal places	1
10	6R1	Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts	2

# Mathematics Mastery curriculum map

## Spring term

Assessment maps outline the content covered in every New PUMA test and show which content from each Mathematics Mastery unit and NC content domain is assessed.

The units at the top of each table denote prior learning.

MM unit	NC Content Domain ref	Year 1 Spring	Marks
<b>Prior year content</b>			
Early years goals	ELGSSM	Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems	2
<b>Current year, prior term content</b>			
3	1G1a	Recognise and name common 2-D shapes [e.g. rectangles (including squares), circles and triangles]	1
	1G1b	Recognise and name common 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]	1
<b>Current year, current term content</b>			
6	1M4c	Recognise and use language relating to dates, including days of the week, weeks, months and years	1
7	1C1	Represent and use number bonds and related subtraction facts within 20	2
	1C2a	Add and subtract one-digit and two-digit numbers to 20, including zero	3
	1C2b	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	1
	1C4	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = [ ] - 9$	3
8	1N1b	Count in multiples of two, five and ten	7
9	Assessed in summer term of Year 1		
10	1F1a	Recognise, find and name a half as one of two equal parts of an object, shape or quantity	2
11	1M2	Measure and begin to record the following: lengths and heights	1
<b>Stretch content leading into following term: Q7,15,17,19,20,25</b>			
12	1N1a	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	2
	1N2a	Count, read and write numbers to 100 in numerals	3
16	1M1	Compare, describe and solve practical problems for: capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter]	1

MM unit	NC Content Domain ref	Year 2 Spring	Marks
<b>Prior year content</b>			
Y1: 3	1G1b	Recognise and name common 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]	1
Y1: 13	1C2a	Add and subtract one-digit and two-digit numbers to 20, including zero	1
<b>Current year, prior term content</b>			
1	2N2b	Compare and order numbers from 0 up to 100; use <, > and = signs	4
	2N6	Use place value and number facts to solve problems	2
3	2C3	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems	1
5	2S2b	Ask and answer questions about totalling and comparing categorical data	2
6	2C6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	3
<b>Current year, current term content</b>			
7	Assessed in summer term of Year 2		
8	2F1a	Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	3
	2F2	Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	1
9	2C1	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	1
	2C2a	Add and subtract numbers using pictorial representations and mentally, including: adding three one-digit numbers	2
10	2M3a	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	2
	2M3b	Find different combinations of coins that equal the same amounts of money	1
	2M9	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	1
11	2G2a	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	3
	2G3	Identify 2-D shapes on the surface of 3-D shapes, [e.g. a circle on a cylinder and a triangle on a pyramid]	1
<b>Stretch content leading into following term: Q10</b>			
9	2C4	Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods ( <i>outside 100</i> )	1

MM unit	NC Content Domain ref	Year 3 Spring	Marks
<b>Prior year content</b>			
Y2: 1	2N3	Recognise the place value of each digit in a two-digit number (tens, ones)	1
Y2: 7	2M4b	Compare and sequence intervals of time	1
Y2: 8	2F1a	Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	1
Y2: 9	2C4	Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods	1
Y2: 10	2M3a	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	1
	2M9	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	1
Y2: 11	2G2a	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	2
Y2: 12	2N6	Use place value and number facts to solve problems	2
Y2: 16	2C8	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	2
<b>Current year, prior term content</b>			
2	3N2a	Read and write numbers up to 1000 in numerals and in words	1
	3N3	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	1
3	3S1	Interpret and present data using bar charts, pictograms and tables	2
	3S2	Solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts, pictograms and tables	1
4	3C2	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	2
	3C3	Estimate the answer to a calculation and use inverse operations to check answers	1
5	3M7	Measure the perimeter of simple 2-D shapes	3
<b>Current year, current term content</b>			
6	3C6	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	1
7	3C7	Write and calculate mathematical statements for multiplication and division using the multiplication tables that pupils know, including for two-digit numbers times	2

		one-digit numbers, using mental and progressing to formal written methods	
	3C8	Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects	4
8	3M4f	Compare durations of events [e.g. to calculate the time taken by particular events or tasks]	1
9	3F1b	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	3
	3F2	Recognise and show, using diagrams, equivalent fractions with small denominators	2
	3F3	Compare and order unit fractions and fractions with the same denominators	1
	3F4	Add and subtract fractions with the same denominator within one whole [e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ ]	1
<b>Stretch content leading into following term: Q7,15,17,21,23,31,32</b>			
12	3N1b	Count from zero in multiples of 4, 8, 50 and 100	1
13	4N3a	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (Y4 NC)	1
	3F1a	Count up and down in tenths ( <i>decimalised</i> )	2
<i>Questions containing content taught by Y3 spring term, but included in stretch section as they require mathematics within a multi-step problem.</i>	3M9a	Add and subtract amounts of money to give change, using both pounds (£) and pence (p) in practical contexts	1
	3F10	Solve problems that involve 3F1–3F4	1
	3C6	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	1
	3C7	Write and calculate mathematical statements for multiplication and division using the multiplication tables that pupils know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	1
	3C8	Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects	1

MM unit	NC Content Domain ref	Year 4 Spring	Marks
<b>Prior year content</b>			
Y2: 11	2G2a	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	1
Y3: 3	3S1	Interpret and present data using bar charts, pictograms and tables	1
	3S2	Solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts, pictograms and tables	1
Y3: 4	3C2	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	1
Y3: 8	3M4f	Compare durations of events [e.g. to calculate the time taken by particular events or tasks]	1
Y3: 9	3F1b	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	1
	3F1c	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	1
Y3: 11	3C4	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	1
Y3: 12	3C6	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	2
<b>Current year, prior term content</b>			
1	4N1	Count in multiples of 6, 7, 9, 25 and 1,000	3
	4N4b	Round any number to the nearest 10, 100 or 1,000	2
3	4C6b	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	4
	4C6c	Recognise and use factor pairs and commutativity in mental calculations	2
	4C7	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	2
4	4S2	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	1
<b>Current year, current term content</b>			
5	4C6a	Recall multiplication and division facts for multiplication tables up to $12 \times 12$	2
6	4F1	Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten	1
	4F2	Recognise and show, using diagrams, families of common equivalent fractions	3
7	Assessed in summer term of Year 4		
8	4F6a	Recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$	1
	4F6b	Recognise and write decimal equivalents of any number of tenths or hundredths	5

	4F9	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	1
9	4M7a	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	3
	4M7b	Find the area of rectilinear shapes by counting squares	1
<b>Stretch content leading into later term: Q21,25,29</b>			
10	4M5	Convert between different units of measurement [e.g. kilometre to metre; hour to minute]	1
	4M9	Calculate different measures, including money in pounds and pence	2
11	4G2c	Complete a simple symmetric figure with respect to a specific line of symmetry	1



MM unit	NC Content Domain ref	Year 5 Spring	Marks
<b>Prior year content</b>			
Y4: 1	4N4a	Identify, represent and estimate numbers using different representations	1
Y4: 2	4C3	Estimate and use inverse operations to check answers to a calculation	2
	4C4	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	2
Y4: 6	4F4	Add and subtract fractions with the same denominator	1
Y4: 8	4F6b	Recognise and write decimal equivalents of any number of tenths or hundredths	1
Y4: 10	4M9	Calculate different measures, including money in pounds and pence	1
Y4: 11	4G2a	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	1
<b>Current year, prior term content</b>			
1	5N1	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	2
	5N2	Read, write, order and compare numbers to at least 1 000 000	3
	5N6	Solve number problems and practical problems that involve 5N1–5N5	3
2	5C4	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	1
3	5M4	Solve problems involving converting between units of time	1
	5S2	Solve comparison, sum and difference problems using information presented in a line graph	4
4	5C5c	Establish whether a number up to 100 is prime	1
	5C5d	Recognise and use square numbers and cube numbers, and the notation for squared ( <sup>2</sup> ) and cubed ( <sup>3</sup> )	1
	5C7a	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	1
	5C7b	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	3
5	5M7b	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> )	1
<b>Current year, current term content</b>			
6	5F2a	Recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements >1 as a mixed number [e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]	2
	5F2b	Identify name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	1
	5F3	Compare and order fractions whose denominators are all multiples of the same number	2
	5F6a	Read and write decimal numbers as fractions [e.g. $0.71 = \frac{71}{100}$ ]	2

	5F6b	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	1
	5F8	Read, write, order and compare numbers with up to three decimal places	1
7	5G4b	Identify angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°)	1
8	5F4	Add and subtract fractions with the same denominators and denominators that are multiples of the same number	1
	5F5	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	2
	5F10	Solve problems involving numbers up to three decimal places	2
	5F12	Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25	2
	5M9b	Use all four operations to solve problems involving measure [e.g. length] using decimal notation, including scaling	1
9	5N5	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	1
	5P2	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	1
<b>Stretch content leading into later terms: Q1,5,31ii</b>			
10	5C6b	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000	4
12	5G2a	use the properties of rectangles to deduce related facts and find missing lengths and angles	1

MM unit	NC Content Domain ref	Year 6 Spring	Marks
<b>Prior year content</b>			
Y4: 4	4S1	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	3
Y4: 5	4C6a	Recall multiplication and division facts for multiplication tables up to $12 \times 12$	2
Y4: 12	4P3b	Plot specified points and draw sides to complete a given polygon	1
Y5: 1	5N6	Solve number problems and practical problems that involve 5N1–5N5	3
Y5: 4	5C5a	Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers	1
	5C6a	Multiply and divide numbers mentally, drawing upon known facts	2
Y5: 5	5M7a/b	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <b>and</b> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\text{cm}^2$ ) and square metres ( $\text{m}^2$ ) and estimate the area of irregular shapes	1
	5M7a	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	1
Y5: 6	5F7	Round decimals with two decimal places to the nearest whole number and to one decimal place	1
Y5: 8	5F4	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	2
	5F10	Solve problems involving numbers up to three decimal places	2
	5F12	Solve problems that require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25	3
Y5: 11	5C6b	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000	2
	5C7a	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	1
Y5: 12	5G2a	use the properties of rectangles to deduce related facts and find missing lengths and angles	1
<b>Current year, prior term content</b>			
2	6C6	Perform mental calculations, including with mixed operations and large numbers	1
	6C7a	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	2
3	6C8	Solve problems involving addition, subtraction, multiplication and division	1
4	6F6	Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction [e.g. $\frac{3}{8}$ ]	2

	6F11	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	1
5	6A1	Express missing number problems algebraically	1
<b>Current year, current term content</b>			
6	6N5	Use negative numbers in context, and calculate intervals across zero	1
	6G2b	Describe simple 3-D shapes	1
	6P3	Describe positions on the full co-ordinate grid (all four quadrants)	1
7	Assessed in summer term of Year 6		
8	6A2	Use simple formulae	2
	6A3	Generate and describe linear number sequences	5
	6M6	Convert between miles and kilometres	1
	6M7a	Recognise that shapes with the same areas can have different perimeters and vice versa	2
	6M7b	Calculate the area of parallelograms and triangles	2
	6M8a	Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [e.g. $\text{mm}^3$ and $\text{km}^3$ ]	1
9	6R2	Solve problems involving the calculation of percentages [e.g. of measures such as 15% of 360] and the use of percentages for comparison	1
10	6R4	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	1
<b>Stretch content leading into later terms: Q38,39</b>			
	6C9	Use knowledge of the order of operations to carry out calculations involving the four operations	1
	6N5	Use negative numbers in context, and calculate intervals across zero	1
	6N6	Solve number problems and practical problems that involve 6N2–6N5	1