



Marston Thorold Mathematics Medium Term Plan Y3 / Y4 2018-19

WEEK	WEEK BEGINNING	AUTUMN TERM	YEAR 3	YEAR 4		
1	04.09.18	Number Number and Place Value	<ul style="list-style-type: none"> - count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number - recognise the place value of each digit in a three-digit number (hundreds, tens, ones) - compare and order numbers up to 1000 - identify, represent and estimate numbers using different representations - read and write numbers up to 1000 in numerals and in words - solve number problems and practical problems involving these ideas. 	<ul style="list-style-type: none"> - count in multiples of 6, 7, 9, 25 and 1000 - find 1000 more or less than a given number - count backwards through zero to include negative numbers - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) - order and compare numbers beyond 1000 - identify, represent and estimate numbers using different representations - round any number to the nearest 10, 100 or 1000 - solve number and practical problems that involve all of the above and with increasingly large positive numbers - read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 		
2	10.09.18	Number Number and Place Value				
3	17.09.18	Number Number and Place Value				
4	24.09.18	Number Addition and Subtraction			<ul style="list-style-type: none"> - add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - estimate the answer to a calculation and use inverse operations to check answers - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	<i>Pupils continue to practice mental methods (from Notes & Guidance)</i> <ul style="list-style-type: none"> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate - estimate and use inverse operations to check answers to a calculation - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
5	01.10.18	Number Addition and Subtraction				
6	08.10.18	Number Addition and Subtraction				
7	15.10.18	Measurement			<ul style="list-style-type: none"> - tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight - know the number of seconds in a minute and the number of days in each month, year and leap year - compare durations of events [for example to calculate the time taken by particular events or tasks]. 	<ul style="list-style-type: none"> - read, write and convert time between analogue and digital 12- and 24-hour clocks - solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
8	30.10.18	Measurement	<ul style="list-style-type: none"> - tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight - know the number of seconds in a minute and the number of days in each month, year and leap year - compare durations of events [for example to calculate the time taken by particular events or tasks]. 	<ul style="list-style-type: none"> - read, write and convert time between analogue and digital 12- and 24-hour clocks - solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 		
9	05.11.18	Number Multiplication and Division	<ul style="list-style-type: none"> - recall and use multiplication and division facts for the 3x multiplication tables - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental - solve problems, including missing number problems, involving multiplication and division 	<ul style="list-style-type: none"> - recall multiplication and division facts for multiplication tables up to 12×12 - 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 - recognise and use factor pairs and commutativity in mental calculations - solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, 		
10	12.11.18	Number Multiplication and Division				
11	19.11.18	Number Fractions				
12	26.11.18	Number Fractions				
			<ul style="list-style-type: none"> - recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators - recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - compare and order unit fractions, and fractions with the same denominators - solve problems that involve all of the above. 	<ul style="list-style-type: none"> - recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. - solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number - 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 - solve simple measure problems involving 		



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					fractions
13	03.12.18		Geometry Properties of Shape	- recognise angles as a property of shape or a description of a turn - 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	- identify acute and obtuse angles and compare and order angles up to two right angles by size
14	10.12.18		Geometry Properties of Shape	- draw 2-D shapes	- identify lines of symmetry in 2-D shapes presented in different orientations - complete a simple symmetric figure with respect to a specific line of symmetry.
15	17.12.18		Geometry Position and Direction (Y4) Properties of Shape – (Y3)	- identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	- describe positions on a 2-D grid as coordinates in the first quadrant - plot specified points and draw sides to complete a given polygon.



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WEEK	WEEK BEGINNING	SPRING TERM	YEAR 3	YEAR 4
1	07.01.19	=	Number Addition and Subtraction <ul style="list-style-type: none"> - add and subtract numbers mentally, including: a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - estimate the answer to a calculation and use inverse operations to check answers - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	<i>Pupils continue to practice mental methods (from Notes & Guidance)</i> <ul style="list-style-type: none"> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate - estimate and use inverse operations to check answers to a calculation - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
2	14.01.19			
3	21.01.19		Statistics <ul style="list-style-type: none"> - interpret and present data using bar charts - solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. 	<ul style="list-style-type: none"> - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables
4	28.01.19		Number Multiplication and Division <ul style="list-style-type: none"> - recall and use multiplication and division facts for the 3x and 4x tables - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods - solve problems, including missing number problems, involving multiplication and division, 	
5	04.02.19		Number Multiplication and Division <ul style="list-style-type: none"> - count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - recognise and show, using diagrams, equivalent fractions with small denominators - solve problems that involve all of the above. 	<ul style="list-style-type: none"> - recognise and show, using diagrams, families of common equivalent fractions - count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. - recognise and write decimal equivalents of any number of tenths or hundredths - recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ - solve simple measure and money problems involving fractions and decimals to two decimal places.
6	11.02.19		Measurement <ul style="list-style-type: none"> - measure, compare, add and subtract: lengths (m/cm/mm) - measure the perimeter of simple 2-D shapes 	
7	25.02.19	Measurement <ul style="list-style-type: none"> - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 	<ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - describe movements between positions as translations of a given unit to the left/right and up/down 	
8	04.03.19	Number Fractions <ul style="list-style-type: none"> - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 		<ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - describe movements between positions as translations of a given unit to the left/right and up/down
9	11.03.19	Number Fractions <ul style="list-style-type: none"> - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 	<ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - describe movements between positions as translations of a given unit to the left/right and up/down 	
10	18.03.19	Geometry Properties of Shape – Y3 <ul style="list-style-type: none"> - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 		<ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - describe movements between positions as translations of a given unit to the left/right and up/down
11	25.03.19	Geometry Position and Direction – Y4 Properties of Shape <ul style="list-style-type: none"> - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 	<ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - describe movements between positions as translations of a given unit to the left/right and up/down 	
12	01.04.19	Geometry Position and Direction – Y4 Properties of Shape <ul style="list-style-type: none"> - Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 		<ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - describe movements between positions as translations of a given unit to the left/right and up/down



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WEEK	WEEK BEGINNING	SUMMER TERM	YEAR 3	YEAR 4	
1	23.04.19	Number Number and Place Value	<ul style="list-style-type: none"> - count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number - recognise the place value of each digit in a three-digit number (hundreds, tens, ones) - compare and order numbers up to 1000 - identify, represent and estimate numbers using different representations - read and write numbers up to 1000 in numerals and in words - solve number problems and practical problems involving these ideas. 	<ul style="list-style-type: none"> - count in multiples of 6, 7, 9, 25 and 1000 - find 1000 more or less than a given number - count backwards through zero to include negative numbers - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) - order and compare numbers beyond 1000 - identify, represent and estimate numbers using different representations - round any number to the nearest 10, 100 or 1000 - solve number and practical problems that involve all of the above and with increasingly large positive numbers - read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 	
2	29.04.19		Number Addition and Subtraction	<ul style="list-style-type: none"> - add and subtract numbers mentally, including: a three-digit number and ones - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - estimate the answer to a calculation and use inverse operations to check answers 	<ul style="list-style-type: none"> - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <i>Pupils continue to practice mental methods (from Notes & Guidance)</i> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate - estimate and use inverse operations to check answers to a calculation - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
3	06.05.19		Number Addition and Subtraction	<ul style="list-style-type: none"> - add and subtract amounts of money to give change, using both £ and p in practical contexts 	<ul style="list-style-type: none"> - estimate, compare and calculate different measures, including money in pounds and pence
4	13.05.19		Measurement	<ul style="list-style-type: none"> - measure, compare, add and subtract: lengths (m/cm/mm); and mass (kg/g); 	<ul style="list-style-type: none"> - Convert between different units of measure [for example, kilometre to metre; hour to minute] - find the area of rectilinear shapes by counting squares
5	20.05.19		Measurement		
6	03.06.19	Number Number and Place Value	Statistics	<ul style="list-style-type: none"> - interpret and present data using tables - solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. 	<ul style="list-style-type: none"> - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
7	10.06.19		Number Multiplication and Division	<ul style="list-style-type: none"> - recall and use multiplication and division facts for the 3, 4 and 8x multiplication tables - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods - 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. 	<ul style="list-style-type: none"> - recall multiplication and division facts for multiplication tables up to 12×12 - 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 - recognise and use factor pairs and commutativity in mental calculations - multiply two-digit and three-digit numbers by a one-digit number using formal written layout - 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.
8	17.06.19		Number Multiplication and Division	<ul style="list-style-type: none"> - add and subtract fractions with the same denominator within one whole [for example, $75 + 71 = 76$] - solve problems that involve all of the above. 	<ul style="list-style-type: none"> - add and subtract fractions with the same denominator - solve simple measure problems involving fractions
9	24.06.19		Number Fractions	<ul style="list-style-type: none"> - count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators - recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - recognise and show, using diagrams, equivalent fractions with small denominators - add and subtract fractions with the same denominator within one whole [for example, $75 + 71 = 76$] 	<ul style="list-style-type: none"> - compare and order unit fractions, and fractions with the same denominators - solve problems that involve all of the above. - round decimals with one decimal place to the nearest whole number - compare numbers with the same number of decimal places up to two decimal places - solve simple measure and money problems involving fractions and decimals to two decimal places.
10	01.07.19		Number Fractions		
11	08.07.19		Number Fractions		



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12	15.07.19		Measurement	- measure, compare, add and subtract: volume/capacity (l/ml)	- Convert between different units of measure [for example, kilometre to metre; hour to minute] - estimate, compare and calculate different measures, including money in pounds and pence
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