Frances Olive Anderson C of E Primary School

'Being Different, Belonging Together.'

Mathematics Long/Medium Term Planning 2018-2019

Year 4

This long and medium term plan provides an overview of coverage for mathematics across the school year. It will be updated each school year in line with the school calendar. The long and medium term plans are a guide and can be used flexibly providing all programmes of study are taught within the school year inline with the National Curriculum aims. Following discussion with the maths subject leader you can and should adapt your teaching sequence in response to ongoing formative and summative assessment to ensure you meet the needs of particular groups and individual children in your class.

Year 4 Mathematics Long Term Overview							
Autumn Term	Number and Place Value (4 Weeks)	Number Addition and Subtraction (3 Weeks)	Number Multiplication and Division (3 Weeks)	Geometry Shape (2 Weeks)	Measurement Length Area and Perimeter (1 Week)		
Spring Term	Number Place Value (1 Week)	Fractions (3 Weeks)	Measurement Time (2 Weeks)	Number Place Value (1 Week)	Decimals (2 Weeks)	Geometry Position and Direction (1 Week)	Statistics (1 Week)
Summer Term	Decimals (2 Weeks)	Number Money (2 Weeks)	Geometry Symmetry (2 Weeks)	Measures (2 Weeks)	Statistics (1 Week)	Consolidation	

Mathematics

Y1-Y6 To use squared maths books and pencil throughout.

Date, title (optional) and LO to be written from the left.

Number fluency to be embedded through TT Rock Stars and regular times table practise in KS2.

In KS1 regular counting (at least 2 min daily) to develop number fluency.

Y1-6 to complete arithmetic tests (Rising Stars) at least once a fortnight and used alongside cold maths activities to inform assessment.

Cold Maths Activities 2 weeks after teaching point - X3 each week (Fluency, Reasoning and Problem Solving)

Reasoning and problem solving must also be embedded and developed where possible, in every maths lesson in line with the National Curriculum aims.

Opportunities should also be made to apply mathematics across the curriculum and it is important class teachers find connections with the Cornerstones curriculum and/or science where possible (at least once a term)

Whilst the long term plan indicates the overall domain being covered in that period of time, other domains should easily be linked to ensure mathematical connections are continually made. For example, a unit on measurement could easily allow application of multiplication and division.

Pupils purple polish corrections.

Use stickers to show when concrete resources have been used and scaffolding stickers to show support that has been given.

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Autumn Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
1	3.9.18 (4 Days)	Number Place Value	• Count in multiples of 6, 7, 9, 25 and 1,000. • Find 1,000 more or less than a given number.
2	10.9.18	Number Place Value	• Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s. • Order and compare numbers beyond 1,000. • Identify, represent and estimate numbers using different representations.
3	17.9.18	Number Place Value	• Round any number to the nearest 10, 100 or 1,000.
4	24.9.18	Number Place Value	• Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
5	1.10.18	Number Addition and Subtraction	• Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
6	8.10.18	Number Addition and Subtraction	• Estimate and use inverse operations to check answers to a calculation.
7	15.10.18	Number Addition and Subtraction	• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
		HALF TERM	
1	29.10.18 (4 Days)	Number Multiplication and Division	• Recall multiplication and division facts for multiplication tables up to 12 × 12. • Count in multiples of 6, 7, 9, 25 and 1,000.
2	5.11.18	Number Multiplication and Division	• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers. • Recognise and use factor pairs and commutativity in mental calculations.
3	12.11.18	Number Multiplication and Division	• 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 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
4	19.11.18	Geometry Shape	• Identify acute and obtuse angles and compare and order angles up to 2 right angles by size.
5	26.11.18	Geometry Shape	• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
6	3.12.18	ASSESSMENT WEEK	
7	10.12.18	Measurement Length Area and Perimeter	• Convert between different units of measure (length) • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. • Find the area of rectilinear shapes by counting squares.
8	17.12.18 (3 Days)	CONSOLIDATION	

Cross Curricular Links:

Traders and Raiders - Using Money (Trade)
Potions - Measurement (George's Marvellous Medicine)

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Spring Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
1	7.1.19	Number Place Value	• Count backwards through 0 to include negative numbers. • Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
2	14.1.19	Fractions	• 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 a 100 and dividing tenths by 10.
3	21.1.19	Fractions	• Add and subtract fractions with the same denominator.
4	28.1.19	Fractions	• 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.
5	4.2.19	Measurement Time	• read, write and convert time between analogue and digital 12 and 24-hour clocks.
6	11.2.19	Measurement Time	• Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.
HALF TERM			
1	25.2.19	Number Place Value	• Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value. • Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
2	4.3.19	Decimals	• Recognise and write decimal equivalents of any number of tenths or hundredths. • Recognise and write decimal equivalents to ¼; ½; ¾.
3	11.3.19	Decimals	• 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.
4	18.3.19	ASSESSMENT WEEK	
5	25.3.19	Geometry Position and Direction	• Describe positions on a 2-D grid as coordinates in the first quadrant. • Describe movements between positions as translations of a given unit to the left/right and up/down. • Plot specified points and draw sides to complete a given polygon.
6	1.4.19	Statistics	• 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.

Cross Curricular Links:

Misty Mountain Sierra: Statistics Heights of Mountains and Temperature
I am Warrior: Roman Numerals

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Summer Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
1	22.4.19 (3 Days)	Decimals	• Round decimals with 1 decimal place to the nearest whole number.
2	29.4.19	Decimals	• Compare numbers with the same number of decimal places up to 2 decimal places. • solve simple measure and money problems involving fractions and decimals to 2 decimal places.
3	6.5.19 (4 Days)	Money Number	• Estimate, compare and calculate different measures, including money in pounds and pence.
4	13.5.19	Money Number	• 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. • 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 3 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.
5	20.5.19	Geometry Symmetry	• 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.
HALF TERM			
1	3.6.19	Measure	• Convert between different units of measure (km-m, cm-m, cm-mm, ml-l, g-kg)
2	10.6.19	Measure	• Convert between different units of measure (km-m, cm-m, cm-mm, ml-l, g-kg)
3	17.6.19	Statistics	• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graph. • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
4	24.6.19	ASSESSMENT WEEK	
5	1.7.19	TRANSITION WEEK	
6	8.7.19	CONSOLIDATION	
7	15.7.19	CONSOLIDATION	

Cross Curricular Links:

Blue Abyss: Statistics Oceans
Burps, Bottoms and Bile: Statistics