



Frances Olive Anderson C of E Primary School

'Being Different, Belonging Together.'

Mathematics Long/Medium Term Planning 2018-2019

Year 6

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 in line 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 6 Mathematics Long Term Overview								
Autumn Term	Place Value Addition (1 Week)	Decimals Addition (1 Week)	Addition and Subtraction (1 Week)	Shape and Angles (1 Week)	Multiplication and Division Fractions (1 Week)	Number Multiplication Statistics (1 Week)	Fractions Division (1 Week)	Decimals Subtraction (1 Week)
Spring Term	Number and Place Value (1 Week)	Addition and Subtraction (1 Week)	Decimals Addition and Subtraction Measures (1 Week)	Shape Measures Statistics (1 Week)	Multiplication and Division Decimals (1 Week)	Fractions Division Statistics (1 Week)	Algebra (1 Week)	Fractions Division (1 Week)
Summer Term	Revision KS2 SATs							

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	<ul style="list-style-type: none"> Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Pupils practise addition, subtraction, multiplication and division for larger numbers, using the formal written methods of columnar addition and subtraction, short and long multiplication, and short and long division.
2	10.9.18	Number Decimals/Addition	<ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Compare and order fractions, including fractions > 1. Pupils practise addition, subtraction, multiplication and division for larger numbers, using the formal written methods of columnar addition and subtraction, short and long multiplication, and short and long division.
3	17.9.18	Number Addition and Subtraction	<ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers. Pupils practise addition, subtraction, multiplication and division for larger numbers, using the formal written methods of columnar addition and subtraction, short and long multiplication, and short and long division.
4	24.9.18	Geometry Shape and Angles	<ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
5	1.10.18	Number Multiplication and Division Fractions	<ul style="list-style-type: none"> Identify common factors, common multiples and prime numbers. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions > 1. Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction [for example, $\frac{3}{8}$] Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
6	8.10.18	Number Multiplication	<ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Solve problems involving addition, subtraction, multiplication and division.
7	15.10.18	Number Fractions and Division	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Solve problems involving addition, subtraction, multiplication and division.
HALF TERM			
<u>Cross Curricular Links:</u>			



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Autumn Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
HALF TERM			
1	29.10.18 (4 Days)	Number Decimals/Subtraction	<ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Perform mental calculations, including with mixed operations and large numbers.
2	5.11.18	Measures	<ul style="list-style-type: none"> Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. Convert between miles and kilometres. Interpret and construct pie charts and line graphs and use these to solve problems.
3	12.11.18	Geometry Shape Number Fractions	<ul style="list-style-type: none"> Recognise, describe and build simple 3-D shapes, including making nets. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
4	19.11.18	Number Multiplication and Division Addition and Subtraction	<ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a 2-digit whole number using the formal written method of long multiplication. Solve problems involving addition, subtraction, multiplication and division.
5	26.11.18		
6	3.12.18	ASSESSMENT WEEK	
7	10.12.18	CONSOLIDATION	
8	17.12.18 (3 Days)		
<u>Cross Curricular Links:</u>			



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Spring Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
1	7.1.19	Number Place Value	<ul style="list-style-type: none"> Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across zero.
2	14.1.19	Number Addition and Subtraction	<ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve problems involving addition, subtraction, multiplication and division.
3	21.1.19	Number Decimals Addition and Subtraction Measures	<ul style="list-style-type: none"> Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
4	28.1.19	Shape Measures Statistics	<ul style="list-style-type: none"> Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. Interpret and construct pie charts and line graphs and use these to solve problems.
5	4.2.19	Number Multiplication and Division Decimals Ratio and Proportion	<ul style="list-style-type: none"> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Multiply one-digit numbers with up to two decimal places by whole numbers.
6	11.2.19	Fractions Division Ratio and Proportion Statistics	<ul style="list-style-type: none"> Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison. Calculate and interpret the mean as an average. Compare and order fractions, including fractions > 1.

HALF TERM

Cross Curricular Links:

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Spring Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
HALF TERM			
1	25.2.19	Algebra	<ul style="list-style-type: none"> Use simple formulae. Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables.
2	4.3.19	Number Fractions/Division	<ul style="list-style-type: none"> Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) Divide proper fractions by whole numbers (for example, $\frac{1}{3} \div 2 = \frac{1}{6}$) Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
3	11.3.19	Measures	<ul style="list-style-type: none"> Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units (for example, mm³ and km³)
4	18.3.19	ASSESSMENT WEEK	
5	25.3.19	Shape Number Fractions Ratio and Percentages	<ul style="list-style-type: none"> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
6	1.4.19	Number Multiplication and Division	<ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a 2-digit whole numbers using the formal written method of long multiplication. Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.

Cross Curricular Links:



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Summer Term			
Wk	Week Beg	Topic	Curriculum Objectives (2014 Curriculum)
1	22.4.19 (3 Days)		Revision
2	29.4.19		
3	6.5.19 (4 Days)		
4	13.5.19		SATs
5	20.5.19		
HALF TERM			
1	3.6.19		
2	10.6.19		
3	17.6.19		
4	24.6.19	ASSESSMENT WEEK	
5	1.7.19	TRANSITION WEEK	
6	8.7.19		
7	15.7.19		
<u>Cross Curricular Links:</u>			