



## YEAR 6 – Term 1

<b>EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)</b>			
Recall all multiplication tables and division facts Count in 10s, 100s, 1000s etc up and back Find unit fractions of numbers		Recall decimal pairs of 1 and 10 Doubling and halving a range of numbers	
Days	Topic	Objectives: children will be taught to	
8	Number and Place Value           Fractions, Decimals and Percentages	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  Solve number and practical problems that involve all of the above.  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	Link to measures to embed understanding           Link to metric conversions
10	Addition and Subtraction, Multiplication and Division           Fractions, Decimals and Percentages	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication  Divide numbers up to 4 digits by a two-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 two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context  Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why  Solve problems involving addition, subtraction, multiplication and division  Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.  Multiply one-digit numbers with up to two decimal places by whole numbers  Use written division methods in cases where the answer has up to two decimal places  Solve problems which require answers to be rounded to specified degrees of accuracy	Secure written methods for + , -
8	Measurement	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate  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	Mixed unit problems
4	Geometry Position and Direction	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.	



## YEAR 6 – Term 2

<b>EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)</b>			
Recall all multiplication tables and division facts Order decimal numbers Name 2D shapes		Convert metric measures 2 digit addition and subtraction using a range of strategies	
Days	Topic	Objectives: children will be taught to	
5	Number and Place Value  Algebra	Use negative numbers in context, and calculate intervals across zero  Generate and describe linear number sequences  Express missing number problems algebraically	
5	Addition and Subtraction, Multiplication and Division	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	
8	Fractions, Decimals and Percentages	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination  Compare and order fractions, including fractions > 1  Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	
8	Ratio and Proportion	Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison  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.	Link to measures
4	Geometry Properties of Shape	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	



## YEAR 6 – Term 3

<b>EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)</b>			
Recall all multiplication tables Multiply and divide by 10, 100, 1000		Time duration Write numbers in numerals Fraction and decimal equivalents	
Days	Topic	Objectives: children will be taught to	
3	Number and Place Value  Fractions, Decimals and Percentages	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  Solve number and practical problems that involve all of the above.  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	Link to measures to embed understanding    Link to conversions
5	Addition and Subtraction, Multiplication and Division  Measurement  Ratio and Proportion	Identify common factors, common multiples and prime numbers  Convert between miles and kilometres  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 unequal sharing and grouping using knowledge of fractions and multiples.	
4	Addition and Subtraction, Multiplication and Division  Fractions, Decimals and Percentages	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why  Solve problems involving addition, subtraction, multiplication and division  Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.  Multiply one-digit numbers with up to two decimal places by whole numbers  Use written division methods in cases where the answer has up to two decimal places  Solve problems which require answers to be rounded to specified degrees of accuracy	Revisit and consolidate from term 1

7	<p>Measurement</p> <p>Algebra</p> <p>Ratio and Proportion</p>	<p>Recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Calculate the area of parallelograms and triangles</p> <p>Find pairs of numbers that satisfy an equation with two unknowns</p> <p>Use simple formulae</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (<math>\text{cm}^3</math>) and cubic metres (<math>\text{m}^3</math>), and extending to other units [for example, <math>\text{mm}^3</math> and <math>\text{km}^3</math>].</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p>	
7	<p>Geometry</p> <p>Properties of Shape</p>	<p>Draw 2-D shapes using given dimensions and angles</p> <p>Recognise, describe and build simple 3-D shapes, including making nets</p> <p>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p>	
4	<p>Statistics</p>	<p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Calculate and interpret the mean as an average.</p>	<p>Link to other areas of the curriculum</p>



**YEAR 6 – Terms 4-5**  
10 week revision plan – all Y6 objectives listed, revisit as appropriate

<b>EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)</b>			
Revisit as appropriate			
Days	Topic	Objectives: children will be taught to	
5	Number and Place Value  Fractions, Decimals and Percentages	<p>Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p> <p>Round any whole number to a required degree of accuracy</p> <p>Solve number and practical problems that involve all of the above.</p> <p>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</p>	<p>Word problems</p> <p>Vocabulary</p> <p>Test type questions</p>
10	Addition and Subtraction, Multiplication and Division  Fractions, Decimals and Percentages	<p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>Divide numbers up to 4 digits by a two-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</p> <p>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Solve problems involving addition, subtraction, multiplication and division</p> <p>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>Use written division methods in cases where the answer has up to two decimal places</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy</p>	<p>Link to measures</p>

5	Measurement	<p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p> <p>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</p> <p>Convert between miles and kilometres</p>	Accuracy
5	Measurement	<p>Recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Calculate the area of parallelograms and triangles</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units [for example, mm<sup>3</sup> and km<sup>3</sup>].</p>	
5	Fractions, Decimals and Percentages  Addition and Subtraction, Multiplication and division	<p>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p> <p>Compare and order fractions, including fractions &gt; 1</p> <p>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math> ]</p> <p>Divide proper fractions by whole numbers [for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math> ]</p> <p>Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math> ]</p> <p>Identify common factors, common multiples and prime numbers</p>	
5	Geometry Properties of Shape	<p>Recognise, describe and build simple 3-D shapes, including making nets</p> <p>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p>	
3	Statistics	<p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Calculate and interpret the mean as an average.</p>	

7	Ratio And Proportion	<p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</p>	
5	Algebra	<p>Use simple formulae</p> <p>Generate and describe linear number sequences</p> <p>Express missing number problems algebraically</p> <p>Find pairs of numbers that satisfy an equation with two unknowns</p> <p>Enumerate possibilities of combinations of two variables.</p>	



## YEAR 6 – Term 6 Transition Term

EVERY DAY: Practise and develop oral and mental skills (e.g. counting, mental strategies, rapid recall of + and - facts)			
Days	Topic	Objectives: children will be taught to	
5	Number and Place Value  Fractions, Decimals and Percentages  Ratio and Proportion	Use negative numbers in context, and calculate intervals across zero  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.  Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison	
5	Addition and Subtraction, Multiplication and Division Ratio and Proportion	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 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.	
10	Measurement  Geometry – Properties of Shape  Geometry – Position and Direction	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  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  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.	
5	Statistics	Interpret and construct pie charts and line graphs and use these to solve problems  Calculate and interpret the mean as an average.	



5	Algebra	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.	
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