



Teacher: Mr Cox

Maths Medium Term Plan

Class: 5 Year: 5/6 Term: Autumn

STOW-on-the-WOLD  
PRIMARY SCHOOL

heart hand mind

Week Beginning	Main Teaching		Outcomes		S.T.O.P.S Focus
	Year 5	Year 6	Year 5	Year 6	
1	Place Value	Place Value	Read, write and locate 5 digit numbers on a landmarked line; use this to compare/order numbers; recognise the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number > 1 000 000. Confidently add numbers with up to 4 or 5 digits using column addition, including 'piles' of numbers. Use rounding to check answers and determine levels of accuracy.	Locate numbers up to 10 million on a landmarked line; use this to compare/order numbers. Consolidate: Add/subtract mentally with confidence, where it relies upon simple addition/subtraction & place value. Consolidate: Add several large numbers using written addition, including 'piles of nos' with different nos of digits.	Trial by Improvement
2	Addition and place Value	Addition and Place Value	Understand the effect of multiplying/dividing by 10 and 100, including 1- and 2-place decimal answers. Locate 2-place decimal numbers on a line. Add 2-place decimal numbers (money) mentally or using column addition. Use rounding to check answers and determine levels of accuracy.	Identify the place value of each digit in a number with up to 3 decimal places; multiply/divide nos by 10, 100, 1000 giving answers with up to 3-decimal places. Add several decimal nos using mental or written addition. Use estimation to check answers and determine an appropriate degree of accuracy.	Trial by Improvement
3	Addition and Subtraction	Addition and Subtraction	Add/subtract mentally with confidence, where numbers are less than 100 or the calculation relies upon simple addition/subtraction and place value, e.g. giving change. Subtract larger numbers using expanded or compact column subtraction, or by counting up. Subtract 1- and 2-place decimal numbers in context of money by counting up. Subtract larger numbers using expanded or compact column subtraction, or by counting up.	Consolidate: Add several large numbers using written addition, incl. 'piles of numbers' with different nos of digits. Consolidate: Subtract large numbers using decomposition or counting up if appropriate Solve addition/subtraction multi-step problems in context, deciding which operations to use & why. Find the complement to 1, or to next whole number, in the context of money. Add several decimal numbers (money) using mental or written addition. Subtract decimal numbers (money) using mental strategies or written counting up.	Trial by Improvement



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4	Multiplication	Multiplication	Know and recite all times tables incl. division facts; identify multiples & factors + common factors of two nos. Solve problems involving multiplication and division, using knowledge of factors, multiples, squares and cubes. Multiply 2- and 3-digit numbers by 1-digit numbers using short multiplication or grid method. Multiply 2 and 3-digit numbers by 1-digit numbers using long or short multiplication or grid method.	Know all tables facts up to $12 \times 12$ ; identify common factors, common multiples, and prime numbers up to 20. Multiply 2-, 3- and 4-digit numbers by numbers up to 12 using short multiplication or another appropriate written method Use estimation to check answers, determine an approp. degree of accuracy; round answers to $x/ \div$ to a specified degree of accuracy Multiply numbers with up to 4 digits by 2-digit numbers using formal long multiplication.	Looking for Patterns
5	Division	Division	Know and recite all times tables incl. division facts; identify multiples & factors + common factors of two nos. Solve problems involving multiplication and division, using knowledge of factors, multiples, squares and cubes. Perform divisions mentally in range of tables (e.g. use division to find fractions). Divide 2, 3, 4-digit numbers by 1-digit numbers above tables range; choose and use efficient methods; interpret remainders appropriately according to context.	Know all multiplication and division facts up to $12 \times 12$ ; identify common factors and multiples. (in starters) Interpret remainders as whole nos, fractions, incl. decimal fractions where equivalents are known or by rounding up/down. Divide numbers with up to 4-digits by a number up to 12 using short division and giving an appropriate answer.	Looking for Patterns
6	Multiplication and Division	Multiplication and Division	Solve problems involving multiplication and division, using knowledge of factors, multiples, squares and cubes	Use estimation to check answers, determine an approp. degree of accuracy; round answers to $x/ \div$ to a specified degree of accuracy	Looking for Patterns



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7	Shape	Shape	Understand properties of rectangles and triangles; distinguish regular and irregular polygons, based on reasoning about equal sides and angles.	Compare/classify geometric shapes based on properties; classify, name types of triangle & angle: acute obtuse reflex Draw 2-D shapes, using given dimensions and angles; understand terms parallel and perpendicular. Find angles in triangles, quadrilaterals, regular polygons; find missing angles at a point, vertically opp./on straight line. Identify, illustrate/name parts of circles, including diameter, circumference, radius; understand that radius is half diameter. Recognise, describe and build 3-D simple shapes, including making nets.	Simplify
8/9	Fractions	Fractions	Identify, name, write equivalent fractions; reduce fractions to simplest form, including tenths to fifths, etc. Compare and order fractions where the denominators are multiples of the same number. Recognise mixed nos and improper fractions & convert from one to the other, writing mathematical statements.	Identify simple fraction/decimal/percentage equivalents: E.g. $\frac{1}{4} = 0.25 = 25\%$ , $\frac{1}{3} = 0.33 = 33\%$ Associate a fraction with division; calculate decimal fraction equivalents, e.g. $\frac{4}{5}$ is 0.8, $\frac{1}{8}$ is 0.125 Use common multiples to generate equivalent fractions ( $\frac{4}{8} = \frac{1}{2}$ ) knowledge of equivalence to compare/order fractions and to add or subtract fractions and mixed numbers	Simplify



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10	Measures and Data	Measures and data	<p>Measure and compare capacities, weights and lengths; convert between different SI units.</p> <p>Understand and use approximate equivalences between common imperial and SI units.</p> <p>Begin to read scales of different types.</p> <p>Solve problems involving converting between units of time; use 12- &amp; 24-hour times, find time intervals; tell the time.</p> <p>Complete, read, interpret information in tables, timetables.</p> <p>Create and interpret line graphs, solving comparison, sum and difference problems.</p>	<p>Use, read &amp; write, &amp; convert between, standard units incl. miles &amp; km, using decimal nos with up to 3 places as appropriate</p> <p>Solve problems using standard units &amp; converting between them.</p> <p>Use 12 and 24-hour clocks including analogue with Roman numerals; calculate time intervals; use timetables</p> <p>Read scales with accuracy and confidence. (in starters)</p> <p>Interpret &amp; construct line graphs; use these to solve problems</p>	Simplify
11	Mental and Written Calculations	Mental and Written Calculations	<p>Add/subtract mentally with confidence, where numbers are less than 100 or the calculation relies upon simple addition/subtraction and place value.</p> <p>Confidently add numbers with up to 4 or 5 digits using column addition, incl. 'piles' of numbers.</p> <p>Use rounding to check answers and determine levels of accuracy.</p> <p>Perform divisions mentally in range of tables; use remainders, fractions, decimal equivalences.</p>	<p>Add &amp; subtract mentally with confidence, where nos are &lt; 100 or it relies upon simple addition/subtraction &amp; PV.</p> <p>Multiply/divide whole numbers mentally, using facts to <math>12 \times 12</math> &amp; place value (e.g. <math>60 \times 70</math>); use facts to work with larger numbers. Multiply 2-, 3-, 4-digit numbers by nos up to 12 using grid.</p> <p>Perform divisions mentally within the range of tables facts; divide multiples of 10 and 100, use mental strategies such as halving</p>	Working Backwards
12	Problem Solving and Reasoning	Problem Solving and Reasoning	<p>Solve number problems and practical problems involving place value.</p> <p>Solve problems involving multiplication and division, using knowledge of factors, multiples, squares and cubes</p>	<p>Solve addition/subtraction multi-step problems in context, deciding which operations to use and why</p> <p>Solve problems involving all four operations.</p>	Working Backwards
13	Revision	Revision			Algebraic
14	Assessment	Assessment			Algebraic