



Teacher: Mr Cox

Maths Medium Term Plan

Class: 5 Year: 5/6 Term: Summer

STOW-on-the-WOLD
PRIMARY SCHOOL

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| Week Beginning | Main Teaching | | Outcomes | | S.T.O.P.S Focus |
|-------------------|------------------------|---------------|--|---|----------------------|
| | Year 5 | Year 6 | Year 5 | Year 6 | |
| 1 | Number and Place Value | SATs Revision | <p>Compare negative numbers on a line.</p> <p>Order negative and positive numbers. Count back in steps through zero. Add and subtract multiples of 1, 10, 100, 1000, 10,000 and 100,000 to/from 6-digit numbers.</p> <p>Place 6-digit numbers on landmarked lines and empty lines. Round 6-digit numbers to the nearest 1000, 10,000, and 100,000.</p> | <p>Find intervals across zero.</p> <p>Answer questions about temperature including temperatures below zero.</p> <p>Use column addition and subtraction to add and subtract numbers with up to 5 digits.</p> <p>Estimate answers.</p> <p>Use their knowledge of written addition and subtraction to identify missing digits in the numbers being added/subtracted.</p> <p>Solve multi-step word problem involving at least two different operations.</p> <p>Use knowledge of operations and reasoning to solve number puzzles.</p> <p>Know what each digit represents in whole numbers up to 10,000,000.</p> <p>Round numbers to the nearest 10, 100, 1000, 10,000, 100,000 or 1,000,000.</p> <p>Compare and order numbers up to 10,000,000.</p> | Trial by Improvement |



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| 2 | Number and Place Value | SATs Revision | Read and write Roman numerals to 1000 (M). Recognise years written in Roman numerals. Say what each digit represents in a number with 2 decimal places. Round numbers with 2 decimal places to the nearest whole or tenth. Say a number in between a pair of numbers with 2 decimal places. Say what each digit represents in a number with 3 decimal places. Write place value additions and subtractions. Multiply and divide by 10, 100 and 100 to give answers with 1, 2 or 3 decimal places. | Use number facts and place value to multiply decimals by whole numbers mentally. Use short and long multiplication to multiply 3-digit and 4-digit numbers by 1-digit and 2-digit numbers. Use short division to divide 3-digit and 4-digit numbers by single-digit numbers and 11 and 12. Use long division 3-digit and 4-digit numbers by 2-digit numbers. Know what each digit represents in numbers with up to 3 decimal places. Multiply and divide by 10, 100 and 1000 to give answers with up to 3 decimal places. Convert measurements from one unit to another, mm to cm, cm to m, m to km, g to kg, l to ml and vice versa. | Trial by Improvement |
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| 3 | Multiplication , Division, Fractions and Percentages | SATs Revision | Multiply and divide numbers mentally drawing upon known facts. Express remainders as fractions. Solve word problems using mental multiplication or division. Begin to understand percentages as part out of 100. Know common equivalence between fraction and percentages. Use equivalence with fractions to find percentages. | Use number facts and place value to multiply decimals by whole numbers mentally. Draw rectangles with sides in the same ratio. Understand that scaling up or down leaves the ratio of sides unchanged. Use equivalence to add and subtract fractions, including mixed numbers. Multiply pairs of fractions. Divide fractions by whole numbers. Find fractions and percentages of numbers and measures including money. Interpret bar charts, pie charts and line graphs. Find areas of irregular shapes by counting, including half squares. Calculate areas and perimeters of rectangles and rectilinear shapes. Describe and continue a linear sequence of numbers of shapes. Use the rule of the sequence to find other later terms without working out every term in between. Use fact about angles around a point, on a straight line and triangles to find missing angles. Reflect and translate shapes in all quadrants and label the co-ordinates of the vertices. | Trial by Improvement |
| 4 | Assessment | SATs | | | Looking for Patterns |
| 5 | Fractions and Subtraction | Fractions and Subtraction | Use equivalence to compare and order fractions. Convert improper fractions to mixed numbers. Add and subtract fractions with related denominators. Add and subtract mixed numbers with related denominators. Begin to subtract mixed numbers where the first needs to be broken down, e.g. $4\frac{1}{2} - 2\frac{3}{4}$. Use column subtraction to subtract pairs of 6-digit numbers. Choose counting up (Frog), counting back or column subtraction | Use equivalence to compare and order fractions. Convert improper fractions to mixed numbers. Add and subtract fractions with related denominators. Add and subtract mixed numbers with related denominators. Begin to subtract mixed numbers where the first needs to be broken down, e.g. $4\frac{1}{2} - 2\frac{3}{4}$. Use column subtraction to subtract pairs of 6-digit numbers. Choose counting up (Frog), counting back or column subtraction | Looking for Patterns |



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| 6 | Multiplication, division, algebra | Multiplication, division, algebra and ratio | Find common multiples of single-digit numbers and common factors of 2-digit numbers. Solve problems requiring scaling by simple fractions. Find square numbers to at least 10^2 and cube numbers to at least 10^3 . Use short division to divide 4-digit numbers by single-digit numbers, including those which leave a remainder. Use short division to divide 4-digit numbers by single-digit numbers, expressing remainders as fractions. | Find lowest common multiples of single-digit numbers and highest common factors of 2-digit numbers. Solve problems requiring scaling by simple fractions. Recognise prime numbers up to 50. Investigate a general statement. Recognise and extend number sequences. Use a calculator and interpret the display. Find and use ratios. Interpret and round answers with decimal places on the calculator. | Looking for Patterns |
| 7 | Multiplication and division | Multiplication and division | Use short multiplication to multiply 4-digit numbers by single-digit numbers. Use grid method to multiply 2-digit numbers by 2-digit numbers. Use grid method to multiply 3-digit numbers by 2-digit numbers. Use long multiplication to multiply pairs of 2-digit numbers (one number less than 20). Use long multiplication to multiply 3-digit numbers by 2-digit numbers (where the 2-digit number is less than 20). | Use short multiplication to multiply 4-digit numbers by single-digit numbers. Use grid method to multiply 2-digit numbers by 2-digit numbers. Use long division to divide 3-digit numbers by 2-digit numbers. Use short multiplication to multiply 4-digit numbers by single-digit numbers. Make and test general statements. Use long or short division to divide 3-digit numbers by 12. Make and test general statements. | Simplify |



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| 8 | Time, Line graphs and rate | Time, Line graphs and rate | Read timetables using the 24-hour clock. 2. Calculate time intervals. Calculate time intervals and find a time a given number of minutes or hours and minutes later. Draw and interpret line graphs and read intermediate points. Draw and interpret line graphs and read intermediate points. Begin to understand the concept of a constant rate. Solve problems involving rate. | Read timetables using the 24-hour clock. 2. Calculate time intervals. Calculate time intervals and find a time a given number of minutes or hours and minutes later. Draw and interpret line graphs and read intermediate points. Draw and interpret line graphs and read intermediate points. Begin to understand the concept of a constant rate. Solve problems involving rate. | Simplify |
| 9 | Decimals and Subtraction | Decimals and Subtraction | Understand place value in numbers with three decimal places. Convert between kilograms and grams, litres and millilitres, metres and kilometres. Compare and order numbers with three decimal places and place on a line. Use counting up (Frog) to subtract pairs of numbers with two decimal places. Use counting up (Frog) to subtract numbers with different numbers of decimal places (1 or 2). 2. Solve subtraction word problems. Use counting up (Frog) to find change from £100. Use counting up (Frog) to find the difference between 4-digit prices. 3. Check subtraction by using addition. | Understand place value in numbers with three decimal places. Convert between kilograms and grams, litres and millilitres, metres and kilometres. Compare and order numbers with three decimal places and place on a line. Use counting up (Frog) to subtract pairs of numbers with two decimal places. Use counting up (Frog) to subtract numbers with different numbers of decimal places (1 or 2). Solve subtraction word problems. Use counting up (Frog) to find change from £100. Use counting up (Frog) to find the difference between 4-digit prices. 3. Check subtraction by using addition. | Simplify |



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| 11 | Multiplication and Fractions | Decimals and Fractions investigations | Use long multiplication to multiply pairs of 2-digit numbers together where one < 30. Use long multiplication to multiply pairs of 2-digit numbers together where one < 30. Use long multiplication to multiply a 3-digit number by a 2-digit number less than 30. Use rounding to estimate answers. Multiply fractions by whole numbers. Simplify fraction answers. Multiply mixed numbers by whole numbers. Use brackets. | Use long multiplication to multiply pairs of 2-digit numbers together where one < 30. Use long multiplication to multiply pairs of 2-digit numbers together where one < 30. Use long multiplication to multiply a 3-digit number by a 2-digit number less than 30. Use rounding to estimate answers. Multiply fractions by whole numbers. Simplify fraction answers. Multiply mixed numbers by whole numbers. Use brackets. | Working Backwards |
| 12 | Multiplication, division, subtraction and addition | Multiplication, division, subtraction and addition | Use column addition to add 4- and 5-digit whole numbers, decimals and money. Use column subtraction of whole numbers and counting up (Frog) to subtract decimals including money. Choose which method to use. Use short division to divide 4-digit numbers, expressing remainders as fractions. Solve single and multi-step problems, working out which calculation(s) are necessary. Work out missing numbers in equations and write their own equations. | Use column addition to add 4- and 5-digit whole numbers, decimals and money. Use column subtraction of whole numbers and counting up (Frog) to subtract decimals including money. Choose which method to use. Interpret a rounding error, e.g. 6.9999999 as 7 on calculators. 2. Read recurring displays e.g. 0.3333333 and know that it represents a third. Solve single and multi-step problems, working out which calculation(s) are necessary. Use the AC/CE buttons on a calculator. Begin to use the memory (M+, M- and MR) keys. | Working Backwards |
| 13 | Revision | Revision | | | Algebraic |
| 14 | Assessment | Assessment | | | Algebraic |