St Paul's Church of England Primary School
Basic Skills in Maths (New Curriculum 2014)

	Recall	Mental skills (with jottings if needed) Written calculation methods
<u>**Year 1**</u>	- Number pairs with a total of 10 - Addition facts for totals to at least 10 - Doubles for all numbers to at least 20 - Odd and even numbers to 20	- Add or subtract a pair of single digit numbers - Add or subtract a single digit to or from 10 - Add or subtract a single digit number to or from a teens number - Add a multiple of 10 to a single digit number - Add near doubles to at least 10 - Count on from and back to zero in 1s, 2s, 5s and 10s Use practical and informal written methods to support the addition of a one-digit number or a multiple of 10 to a one or two-digit number. - Use practical and informal written methods to support the subtraction of a one-digit number from a one or two-digit number and subtract a multiple of 10 from a two digit number.

Year 2	• Addition and subtraction facts for all numbers up to at least 20 • Number pairs with totals to 20 • All pairs of multiples of 10 with totals up to 100 • What must be added to any two digit number to make the next multiple of 10 • Doubles and halves for all numbers to 30 • Doubles and halves of multiples of 10 to 100 • Multiplication and division facts for 2x, 5x and 10x tables • Odd and even numbers to 100	• Add or subtract a pair of single digit numbers (that cross 10) • Add or subtract any single digit number to or from a multiple of 10 • Add or subtract any single digit number to or from a two digit number, including crossing the 10s barrier • Add or subtract a multiple of 10 to or from any two digit number • Add 9, 19, 29 ... or 11, 21, 31 ... • Add near doubles greater than 10 (difference of 1) • Double any multiple of 5 up to 50 • Halve any multiple of 10 up to 100 • Find half of even numbers to 40 Find the total number of objects when they are organised into groups of 2, 5 or 10 • Use formal written methods to add and subtract two-digit numbers • Use practical and informal written methods and related vocabulary to support multiplication and division including calculations with remainders.
Year 3	• Addition and subtraction facts for all numbers to 20 • Sums and differences of multiples of 10 • Pairs of two digit numbers with a total of 100 • Doubles of multiples of 10 to 100 • Multiplication and division facts for 3x, 4x and 8x tables (as well as previous 2x, 5x, 10x) and corresponding division facts	• Add and subtract groups of small numbers • Add or subtract a two digit number to or from a multiple of 10 • Add and subtract two digit numbers • Add near doubles • Double any multiple of 5 up to 100 • Halve any multiple of 10 up to 200

	• Doubles and halves of multiples of 10 to 100 • Read Roman Numerals to XII.	• Multiply one digit or two digit numbers by 10 or 100 Find unit fractions of numbers and quantities involving halves, thirds, quarters, fifths and tenths. • Develop and use formal written methods to record, support or explain addition and subtraction of two and three-digit numbers • Use formal written methods to multiply and divide two-digit numbers e.g. 13x3, 50÷4
Year 4	• Sums and differences of pairs of multiples of 10, 100 or 1000 • Addition doubles of numbers 1 to 100, e.g. 38 + 38, and the corresponding halves • What must be added to any three-digit number to make the next multiple of 100 • Pairs of fractions that total 1 • Multiplication and division facts for 7x, 8x and 9x 11x 12x tables (as well as previous 2x, 5x, 10x, 3x, 4x, 6x) • Doubles and halves of numbers 1 to 100 • Doubles and halves of multiples of 10 and 100 • Fraction and decimal equivalents of one-half, quarters, tenths and hundredths • Factor pairs for known multiplication facts • Read Roman Numerals to 100	• Add or subtract any pair of two-digit numbers, including crossing the tens and 100 boundary • Add or subtract a near multiple of 10 • Add near doubles of two-digit numbers • Add or subtract two-digit or three-digit multiples of 10 • Double any two-digit number • Double and halve any multiple of 10 or 100 • Halve any even number to 200 • Find unit fractions and simple non-unit fractions of numbers and quantities • Multiply and divide numbers to 1000 by 10 and then 100 (whole-number answers) • multiply a multiple of 10 to 100 by a single-digit number • Multiply numbers to 20 by a single-digit • Identify the remainder when dividing by 2, 5 or 10 • Give the factor pair associated with a multiplication

		fact - An efficient method for addition of whole numbers - An efficient method for subtraction of two-digit and three-digit whole numbers - An efficient method for two-digit by one-digit multiplication - Long division method (probably chunking) for TU÷U
Year 5	- Sums and differences of decimals. - Doubles and halves of decimals. - What must be added to any four-digit number to make the next multiple of 1000 - What must be added to a decimal with units and tenths to make the next whole number - Squares to 10 × 10 - Division facts corresponding to tables up to 12 × 12, and the related unit fractions - Percentage equivalents of one-half, one-quarter, three-quarters, tenths and hundredths - Factor pairs to 100 - Read Roman Numerals to 1000	- Add or subtract a pair of two-digit numbers or three-digit multiples of 10 - Add or subtract a near multiple of 10 or 100 to any two-digit or three-digit number - Find the difference between near multiples of 100 or 1000 - Add or subtract any pairs of decimal fractions each with units and tenths - Multiply and divide two-digit numbers by 4 or 8 - Multiply two-digit numbers by 5 or 20. - Multiply by 25 or 50 - Double and halve three-digit multiples of 10 to 500 - Find the remainder after dividing a two-digit number by a single-digit number - Multiply and divide whole numbers and decimals by 10, 100 or 1000 - Multiply pairs of multiples of 10

		• Multiply a multiple of 100 by a single digit number • Divide a multiple of 10 by a single-digit number (whole number answers) • Find fractions of whole numbers or quantities • Find 50%, 25% or 10% of whole numbers or quantities Find factor pairs for numbers to 100 • An efficient method for two-digit by two-digit multiplication (HTUxU, TUxTU, U.txU) • Long division method (probably chunking) for HTU÷U
Year 6	• Addition and subtraction facts for multiples of 10 to 1000 and decimal numbers with one decimal place, e.g. 650 + = 930, − 1.4 = 2.5 • What must be added to a decimal with units, tenths and hundredths to make the next whole number • Squares to 12 × 12 • Squares of the corresponding multiples of 10 • Prime numbers less than 100 • Equivalent fractions, decimals and percentages for hundredths, e.g. 35% is equivalent to 0.35 or 35/100	• Add or subtract pairs of decimals with units, tenths or hundredths • Find doubles of decimals each with units and tenths • Add near doubles of decimals • Add or subtract a decimal with units and tenths, that is nearly a whole number • Multiply pairs of two-digit and single-digit numbers • Divide a two-digit number by a single-digit number • Divide by 25 or 50 • Double and halve decimals with units and tenths • Multiply pairs of multiples of 10 and 100 • Divide multiples of 100 by a multiple of 10 or 100 (whole number answers) • Multiply and divide two-digit decimals such as 0.8 × 7,

		4.8 ÷ 6 • Find 10% or multiples of 10%, of whole numbers and quantities • Simplify fractions by cancelling • Scale up and down using known facts Identify numbers with odd and even numbers of factors and no factor pairs other than 1 and themselves • An efficient method for addition and subtraction of whole numbers and decimals • An efficient method for three-digit by two-digit multiplication • Long division method for HTU÷TU • If children have a secure understanding of place value, then a short division method for HTU÷U