	Rapid Recall	Mental Strategies	Mental Calculations	Times Tables
Year 1	• All pairs of numbers with a total to 10 e.g. 3+7 • Addition and subtraction facts for all numbers to any number to 10 • Addition doubles of all numbers to at least 10+10 • Halving facts of even numbers to 20 • One and two more/less than any number up to 100 • 10 more/less of multiples of 10 • 5 more/less of multiples of 5	• Count on or back in ones, twos, fives and tens • Reorder numbers in calculations • Begin to bridge through 10, and later 20, when adding a single-digit number • Use known number facts and place value to add or subtract pairs of single digit numbers • Add 9 to single-digit numbers by adding 10 then subtracting 1 • Subtract 9 by subtracting 10 then adding 1 • Identify near doubles using doubles already known • Use patterns of similar calculations	• Add or subtract a single-digit to or from a single-digit, without crossing 10 e.g. 4+ 5, 8 – 3 • Add or subtract a single digit to or from 10 • Add or subtract a single-digit to or from a 'teens' number, without crossing 20 or 10 e.g. 13 + 5, 17 – 3 • Doubles of all numbers to 10 e.g. 8 + 8, double 6	• Count in tens forward and backwards to 150 • Count forwards and backwards in 2's to 50 (count on and back in 2's from odd and even numbers) • Count forward in 5's to 100 • Begin to count in 3's

	Rapid Recall	Mental Strategies	Mental Calculations	Times Tables
Year 2	• Addition and subtraction facts for all numbers to at least 10 • All pairs of numbers with a total of 20 e.g. 13+7 • All pairs of multiples of 10 with a total of 100 e.g. 30+70 • Multiplication facts for the 2 and 10 times tables and corresponding division facts • Double of all numbers to ten and the corresponding halves • Multiplication facts up to 5x5 e.g. 4x3	• Count on or back in tens or ones • Find a small difference by counting up from the smaller number to the larger number • Reorder numbers in a calculation • Add three small numbers by putting the largest number first and/or finding a pair totalling ten • Partition additions into tens and units then recombine • Bridge through 10 or 20 • Use known number facts and place value to add or subtract pairs of numbers • Add or subtract 9, 19, 11 or 21 by rounding and compensation • Identify near doubles • Use patterns of similar calculations • Use the relationship between addition and subtraction • Use knowledge of number facts and place value to multiply and divide by 2,5 and 10 • Use doubles and halves and halving as the inverse of doubling	• Add or subtract any single-digit to or from any two-digit number, without crossing the tens boundary e.g. 62+4, 38-7 • Add or subtract any single-digit to or from a multiple of 10 e.g. 60+5, 80-7 • Add or subtract any 'teens' number to any two-digit number, without crossing the tens boundary e.g. 23+14, 48+13 • Find what must be added to any two-digit multiple of 10 to make 100 e.g. 70+?=100 • Add or subtract a multiple of 10 to or from any two-digit number without crossing 100 e.g. 47+30, -50 • Subtract any two digit number from any two-digit number when the difference is less than 10 e.g. 78-70, 52-48 • Double of all numbers to at least 15 e.g. double 14 • Double any multiple of 5 up to 50 e.g. double 35 • Halve any multiple of 10 up to 100 e.g. halve 50	• Known 10x, 2x, 5x tables • Count forward and backwards in 3's to 36 • Know inverse division for 10, 2 and 5

	Rapid Recall	Mental Strategies	Mental Calculations	Times Tables
Year 3	• Addition and subtraction facts for all numbers to 20 • All pairs of multiples of 100 with a total of 1000 • All pairs of multiples of 5 with a total of 100 • Multiplication facts of the 2, 5 and 10 times table and corresponding division facts	• Count on or back in tens or ones • Find a small difference by counting up from the smaller to the larger number • Reorder numbers in calculations • Add three or four small numbers by putting the largest number first and/or by finding pairs totalling 9, 10 or 11 • Partition into tens and units then recombine • Bridge through a multiple of 10 then adjust • Use knowledge of number facts and place value to add or subtract pairs of numbers • Add or subtract mentally a near multiple of 10 to or from a two-digit number • Identify near doubles • Use patterns of similar calculations • Say or write a subtraction statement corresponding to a given addition statement • To multiply a number by 10/100, shift its digits one/two places to the left • Use knowledge of number facts and place value to multiply or divide by 2, 5, 10 and 100 • Use doubling and halving • Say or write a division statement corresponding to a given multiplication statement	• Find out what must be added to any multiple of 100 to make 1000 e.g. 300+?=1000 • Add or subtract any pair of two-digit numbers, without crossing a tens boundary to 100 e.g. 33+45, 87-2 • Add or subtract any single-digit to any two digit number, including crossing the tens boundary e.g. 67+5, 82-7 • Find what must be added to/subtracted from any two-digit number to make the next higher/lower multiple of 10 e.g. 64+?=70, 56-?=50 • Subtract any three-digit number from any three-digit number when the difference is less than 10, e.g. 458-451, 603-597 • Find what must be added to/subtracted from any three digit number to make the next higher/lower multiple of 10 e.g. 647+?=650, 246-?=240 • Doubles – double any number to at least 20 e.g. double 18	• Know 2x, 5x,10x, 3x, 4x, 8x and 6x tables and related division facts • Derive 8x facts by doubling 4x facts or double and double and double again • Begin to derive 6x facts from doubling 3x facts

	Rapid Recall	Mental Strategies	Mental Calculations	Times Tables
Year 4	• Multiplication facts of the 2, 3, 4,5 , 6, 7, 8, 9, 10, 11, 12 times tables • Division facts corresponding to tables of 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12	• Count on or back in repeated steps of 1, 10 and 100 • Count up through the next multiple of 10, 100 or 1000 • Reorder numbers in calculations • Add 3 or 4 small numbers, finding pairs totalling 10 • Add 3 or 4, 2 digit numbers, finding pairs totalling 100/use near doubles • Add three 2 digit multiples of 10 • Partition into tens and units, adding the tens first • Bridge through 100 and 1000 • Use knowledge of number facts and place value to add or subtract any pair of two digit numbers • Add or subtract 9, 19, 29, 11, 21 or 31 by rounding and compensating • Add or subtract the nearest multiple of 10 then adjust • Identify near doubles • Continue to use the relationship between addition and subtraction • Double any two digit number by doubling the tens first • Use known number facts and place value to multiply or divide, including multiplying and dividing by 10 and then 100 • Partition to carry out multiplication • Use doubling and halving • Use closely related facts to carry out multiplication and division • Use the relationship between multiplication and division	• Find what must be added to any two-digit number to make 100 e.g. 37+?=100 and to make 1000 • Add or subtract any pair of two-digit numbers e.g. 38+85, 92-47. Repeat for 3 digit numbers • Find out what must be added to / subtracted from any two or three-digit number to make the next higher/lower multiple of 100 e.g. 374 + ?=400, 826 - ?=800 • Subtract any four-digit number from any four digit number when the difference is small e.g. 3641-3628, 6002 – 5991 • Doubles and halves: Double any whole number from 1 to 50, e.g. double 36, and find all the corresponding halves, e.g. 96/2 Double any multiple of 10 to 500, e.g. 380 2, and find all the corresponding halves e.g. 760/2, 130/2 Double any multiple of 5 to 100 e.g. 65 x2, then to 1000 • Multiply any two-digit number by 10, e.g. 26 x 10 • Divide a multiple of 100 by 10 e.g. 600/10 • Multiply any two-digit multiple of 10 by 2,3,4 or 5 e.g. 60 x4, 80 x 3.	• Know 2x, 5x, 10x, 3x,4x, 6x, 7x, 8x, 9x, 11, and 12x tables and related division facts

	Rapid Recall	Mental Strategies	Mental Calculations	Times Tables
Year 5	• Multiplication facts to 12 x 12 • Division facts corresponding to tables up to 12 x 12	• Count through the next multiple of 10, 100, 1000 or 10,000 • Reorder numbers in calculations • Partition into hundreds, tens and Units, adding the most significant digit first • Use known number facts and place value to add or subtract pairs of three digit multiples of 10 and two-digit numbers with one decimal place • Add or subtract the nearest multiple of 10 or 100 then adjust • Identify near doubles • Add several numbers • Develop further the relationship n Between addition and subtraction • Use factors • Partition to carry out multiplication • Use doubling and halving • Use closely related facts to carry out multiplication and division • Use knowledge of number facts and Place value to multiply or divide	• Add or subtract any pair of three-digit multiples of 10 e.g. 570 +250, 620 – 380 • Find what must be added to a decimal fraction with units and tenths to make the next higher whole number e.g. 4.3 + ? = 5 • Add or subtract any pair of decimal fractions each with units and tenths, or each with tenths and hundredths e.g. 5.7 + 2.5, 0.63 – 0.48 • Subtract a four-digit number just less than a multiple of 1000 from a four-digit number just more than a multiple of 1000 e.g. 5001 - 1997 • Multiply any two or three-digit number by 10 or 100 e.g. 79 x 100, 363 x 100 • Divide a multiple of 100 by 10 or 100 e.g. 4000/10, 3600/100 • Multiply any two-digit multiple of 10 by a single digit e.g. 60 x 7, 90 x 6 • Double any whole number from 1 to 100, multiples of 10 to 1000 and find corresponding halves • Find 50%, 25%, 10% of a small whole number or quantities e.g. 25% of £8	• Know 2x, 3x, 4x, 5x,6x 7x, 8x, 9x, 10x, 11x, and 12x tables and related division facts

	Rapid Recall	Mental Strategies	Mental Calculations	Times Tables
Year 6	• All multiplication and corresponding division facts to 12x12 – squares of all integers from 1-10	• Consolidate all strategies from previous years • Use knowledge of number facts and place value to add or subtract pairs of three-digit multiples of 10 and two-digit numbers with one decimal place • Add or subtract the nearest multiples of 10, 100, 1000 then adjust • Continue to use the relationship between addition and subtraction • Use factors • Partition to carry out multiplication • Use doubling and halving • Use closely related facts to carry out multiplication and division • Use the relationship between multiplication and division • Use knowledge of number facts and place value to multiply or divide	• Multiply any two-digit numbers by a single digit e.g. 34x6 • Multiply any two-digit number by 50 or 25 e.g. 23x50, 47x25 • Multiply or divide any whole number by 10 or 100, giving any remainder as a decimal e.g. 47/10 =4.7, 1763/1=17.63 • Find squares of multiples of 10 to 100 • Find any multiple of 10% of a whole number or quantity e.g. 70% of £20, 50% of 5kg, 20% of 2 meters	• Know 2x, 3x, 4x, 5x, 6x, 7x, 8x, 9x, 10x, 11x and 12x tables and related division facts