



Addition / Subtraction			Multiplication / Division, including Skip Counting	
	Recall	Mental calculation skills	Recall	Mental calculation skills
FS	 1 more/1 less with numbers to 20 Number bonds to 5 Addition doubles for numbers to 5 (3 + 3) and corresponding halves 	 Begin to partition numbers to 5 - 	 Count in 1s forwards and backwards up to and across 20 Odd and even numbers to 20 	-
1	 Number bonds to 10 Addition facts (stage 2 – +0; +1; +2; doubles; near doubles; +10) Addition doubles for all numbers to 10 (8 + 8) and the corresponding halves 	 Add or subtract a pair of 1-digit numbers (4 + 5; 8 - 3) Add or subtract a 1-digit number to or from 10 (addition facts +10) Add or subtract a 1-digit number to or from a teens number (13 + 5; 17 - 3) Add any 1-digit number to a multiple of 10 (60 + 5) Add a multiple of 10 to any 1-digit number (7 + 30) Add near doubles (6 + 7) Reorder numbers when adding (putting larger number first) 	 Count in 1s forwards and backwards up to and across 100 Count in 2s, 5s, 10s Knowledge that 'double' means the number added twice (double 8 = 8 + 8) 	-
2	 Number bonds to 20 (14 + 6; 9 + 11) Number bonds to 100 with multiples of 10 (70 + 30; 20 + 80) What must be added to any 2-digit number to make the next multiple of 10 (52 + = 60) All addition facts (stage 1 and 2) Addition doubles for all numbers to 20 (17 + 17) 	 Addition facts (stage 3 - +9 by adjusting; partitioning to use known facts) Subtract any 1-digit number from a multiple of 10 (80 - 7) Add or subtract a 1-digit number to or from a 2-digit number (23 + 5; 57 - 3) Add or subtract any 1-digit number to or from a 2-digit number, including bridging (28 + 5; 52 - 7) 	 Count in 3s Count in 10s from any number Odd and even numbers to 100 Knowledge that 'double' also means x 2 (double 14 = 14 + 14 = 14 x 2) Multiplication facts for the 2, 5, 10 times table 	 Find the total number of objects when they are arranged into groups of 2, 5 or 10





				12000
	and corresponding halves - Addition doubles for multiples of 10 up to 50 (40 + 40) and corresponding halves	 Add or subtract a multiple of 10 to or from any 2-digit number (27 + 60; 72 - 50) Add a 2-digit number to a multiple of 10 (50 + 38) Add near doubles (1 step away) (13 + 14; 39 + 40) Add numbers close to a multiple of 10 and adjust (+9; + 19; + 49) 		
3	 Sums and differences of multiples of 10 (50 + 80; 120 - 90) 2-digit number bonds to 100 (32 + 68 = 100) Addition doubles for multiples of 5 and 10 to 100 (90 + 90; 65 + 65) and the corresponding halves 	 Subtract a 2-digit number from a multiple of 10 (90 – 27) Add or subtract 2-digit numbers (34 + 65; 68 – 35) Add near doubles (>1 step away), including multiples of 10 between 50 and 100 (18 + 16; 60 + 70) 	 Count in 1s, 10s across boundaries in 3-digit numbers Count in 3s, 4s, 8s, 50s, 100s Multiplication facts for the 3, 4, 8 times table 	 Multiply 1-digit or 2-digit numbers by 10 or 100 (54 x 100)
4	 Sums and difference of pairs of multiples of 10, 100 or 1000 Addition of doubles of numbers 1 to 100 (38 + 38) and corresponding halves What must be added to any 3-digit number to make the next multiple of 100 (521 + = 600) Pairs of fractions that total 1 	 Add near doubles of 2-digit numbers (38 + 37) Add or subtract 2-digit or 3-digit multiples of 10 (120 – 40; 140 + 150; 370 – 180) 	 Count in 1s, 10s, 100s across boundaries in 4- digit numbers Count in 6s, 7s, 9s, 11s, 12s, 25s, 1000s Count backwards and forwards in 1s through zero, including negative numbers Multiplication facts for all times tables up to x12 	 Find unit fractions of numbers and quantities, involving halves, thirds, quarters, fifths, eighths, tenths (¹/₈ of 24) Multiply 3-digit numbers by 10 (247 x 10) Multiply a multiple of 10 or 100 up to 1000 by a 1-digit number (40 x 3; 800 x 6). Divide a multiple of 10 or 100 by a 1-digit number, resulting in a whole number (80 ÷ 4; 270 ÷ 3; 400 ÷ 8) Multiply numbers to 20 by a 1- digit number by partitioning (17 x 3)





				 Identify the remainder when dividing by 2, 5 or 10
5	 Doubles and halves of decimals, (half of 5.6, double 3.4) What must be added to any 4-digit number to make the next multiple of 1000 (4087 + = 5000) What must be added to a decimal with units and tenths to make the next whole number (7.2 + = 8) 	 Add or subtract any pair of 2-digit numbers * Add or subtract any pair of 3-digit multiples of 10 * Add or subtract a near multiple of 10 or 100 (56 + 29; 235 - 198) Find the difference between near multiples of 100 (607 - 588) Add or subtract any pairs of decimal fractions each with units and tenths (5.7 + 2.5; 6.3 - 4.8) Find doubles of decimals each with units and tenths (1.6 + 1.6) Add near doubles of decimals (2.5 + 2.6) * by partitioning or jumping on a numberline. 	 Count in powers of 10 up to 1,000,000 from any given number (in 1,000s from 372; in 100,000s from 2,873) Skip count forwards and backwards through zero with simple increments (in 4s from -12) Fraction, decimal and percentage equivalents to one half, quarters, tenths and hundredths (½ = 0.5 = 50%; ¾ = 0.75 + 75%) Factor pairs for known multiplication facts Square numbers to 12 Relate unit fractions to times table knowledge (9 x 7 = 63, so ¹/₉ of 63 = 7) Recall prime numbers less than 20 	 Find simple non-unit fractions of numbers and quantities, including measures (³/₈ of 24) Find 50%, 25%, 10% of simple whole numbers or quantities (25% of 20kg) Multiply 3-digit numbers by 100 (543 x 100) Multiply and divide 2-digit numbers by 4 or 8 by repeated doubling/halving (26 x 4; 96 ÷ 8) Double 3-digit multiples of 10 up to 500 (380 x 2) and corresponding halves Find remainder after dividing 2-digit number by 1-digit number, using known facts (27 ÷ 4 = 6R3) Multiply and divide whole numbers and decimals by 10, 100 or 1000 Multiply pairs of multiples of 10 (60 x 30) Find factor pairs for numbers to 100
6	 Addition and subtraction facts for multiples of 10 to 1000 (650 + = 930) Addition and subtraction facts for decimal numbers with 1 d.p (1.4 = 2.5) 	 Find the difference between near multiples of 1000 (6070 - 4087) Add or subtract pairs of decimals with units, tenths or hundredths (0.7 + 3.38) Add or subtract a decimal with units and tenths that is nearly a whole number (4.3+2.9; 6.5 - 3.8) 	- Squares of multiples of 10	 Multiply 2-digit numbers by 5 or 20 (320 x 5) by relating to x10 then halve/double. Multiply and divide by 25 or 50 by relating to 100 (48 x 25; 32 x 50) Multiply and divide 2-digit numbers by a 1-digit number by partitioning into known facts (28 x 3; 68 ÷ 4)

Shine as Lights in the World Philippians 2.15



	 Multiply and divide pairs of multiples of 10 and 100 (300 x 80; 2100 ÷ 300) Multiply and divide 2-digit decimals (4.8 ÷ 6) Find 10% and multiples of 10% of whole numbers and quantities (30% of 50ml) Scale up and down using known facts (given 3 oranges cost 24p, find the cost of 4 oranges) Simplify fractions with common factors 	
Notes	Notes	
 Doubles & near doubles will have to start with lower year groups Year 1/2/3 changeover is different – feedback on this after year 1 of this teaching progression Addition facts stage 2 potential year 1 but put in y2 as that is current NC guideline. 	 Times tables distributed as normal – this can be changed Unit/non-unit fractions can go into skip counting Crossover between doubling/halving with the addition/subtraction skills 	