Year 1

Using Place value

Count in ones / Counting in tens, e.g. knowing 45 + 1 or 45 + 10 without

counting on in ones

23+10

1	2	3	4	5	6	7	8
11	12	13	14	15	ib	17	18
21	22	23	24	25	26	2]	
31	32	33	34	35	36	31	

Counting on

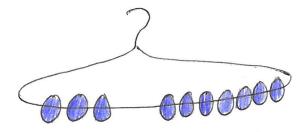
Mental Addition

Count on in ones, e.g. 11 + 2 = 7 + 4 = 7 +

Count on in tens, e.g. 45 + 20 as 45, 55, 65

Using number facts

'Story' of 4, 5, 6, 7, 8 and 9, e.g. 7 = 7 + 0 or 6 + 1 or 5 + 2 or 4 + 3Number bonds to 10, e.g. 5 + 5, 6 + 4, 7 + 3, 8 + 2, 9 + 1, 10 + 0



Patterns using known facts, e.g. 4 + 3 = 7 so we know 24 + 3, 44 + 3, 74 + 3, etc.

Using Place value

Know 1 more or 10 more than any number, e.g. 1 more than 67 or 10 more than 85

Year 2

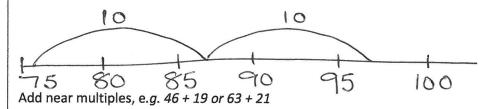
Partitioning, e.g. 55 + 37 as 50 + 30 and 5 + 7 finally combining the two totals:

80 + 12



Counting on

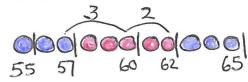
Add ten and multiples of ten, e.g. 76 + 20 as 76, 86, 96 or in one hop 76 + 20 Add two 2-digit numbers by counting on in tens then in ones, e.g. 55 + 37 as 55 add 30 (85) add 7 (92)



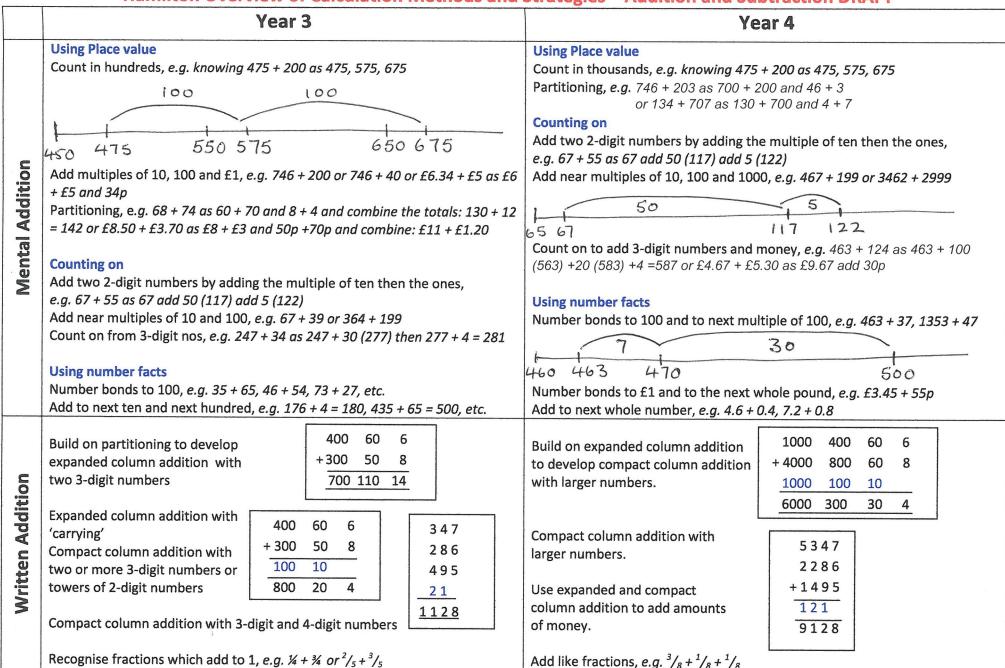
Using number facts

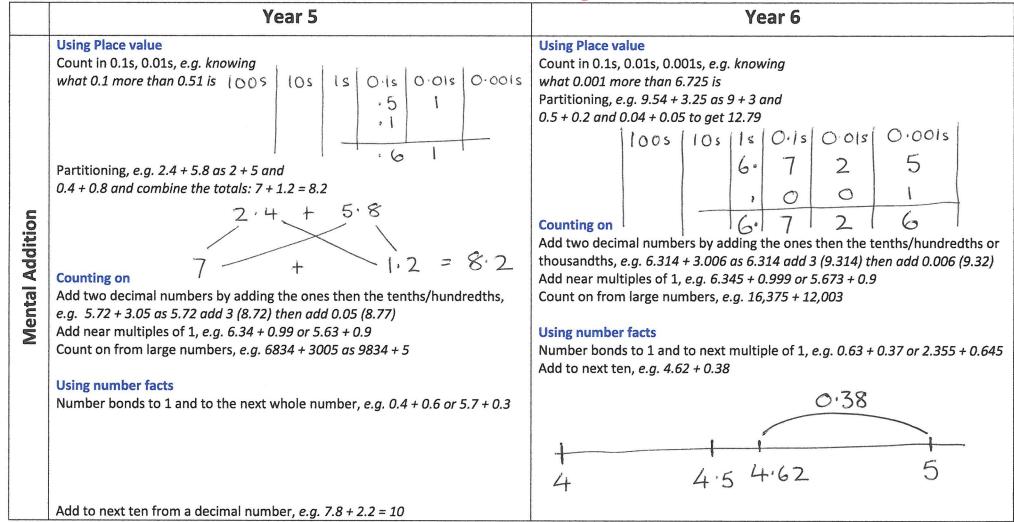
Know pairs of numbers which make the numbers up to and including 10, e.g. 8 = 4&4, 3&5, 2&6, 1&7 and 10 = 5&5, 4&6, 3&7, 2&8, 1&9, 0&10 Patterns of known facts, e.g. 6 + 3 = 9, so we know 36 + 3 = 39, 66 + 3 = 69, 53 + 6 = 59

Bridging ten, e.g. 57 + 5 as 57 add 3 then add 2 more



Adding three or more single-digit numbers, spotting bonds to 10 or doubles, e.g. 6+7+4+2 as 10+7+2





	Year	5	Year 6		
Written Addition	Expanded column addition for money leading to compact column addition for adding several amounts of money Compact column addition to add Pairs of 5-digit numbers Continue to use column addition to add towers of several larger numbers. Use compact addition to add decimal numbers with up to two places	£14 60p 4p £28 70p 8p +£12 20p 6p £1 10p £55 60p 8p 15.68 +27.86 11.1 43.54	Compact column addition for adding several large numbers and decimal numbers with up to two places		
	Adding fractions with related denominato e.g. $\frac{1}{4} + \frac{3}{8} = \frac{5}{8}$	rs,	2 ½ + 1 1/3 = 3 7/12		

Year 1 Year 2 **Using Place value Using Place value** Count back in ones / Count back in tens, e.g. knowing 53-1 or 53-10Know 1 less or 10 less than any number, e.g. 1 less than 74 or 10 less than 82 without counting back in ones Partitioning, e.g. 55 - 32 as 50 - 30 and 5 - 2 combining the answers: 20 + 312 13 15 16 33-10 25 32 Taking away Count back in ones, e.g. 11-3=15 - 4 =**Taking away** Subtract ten and multiples of ten, e.g. 76 – 20 as 76, 66, 56 or in one hop Mental Subtraction 76 - 20 = 56Subtract two 2-digit numbers by counting back in tens then in ones, e.g. 67 - 33 as 67 subtract 30 (37) then count back 3 (34) Count back in tens, e.g. 53 - 20 as 53, 43, 33 Subtracting near multiples, e.g. 74 - 21 or 57 - 19 **Using number facts Using number facts** 'Story' of 4, 5, 6, 7, 8 and 9, e.g. 7-1=6, 7-2=5, 7-3=4, etc. Know pairs of numbers which make the numbers up to and including 10, Number bonds to 10, e.g. 10-1=9, 10-2=8, 10-3=7, etc. e.g. 10-6=4, 8-3=5, 5-2=3, etc. Patterns of known facts, e.g. 9 - 6 = 3, so we know 39 - 6 = 33, 69 - 6 = 63. 89 - 6 = 83Bridge ten, e.g. 52 – 6 as 52 subtract 2 then subtract 4 more Patterns using known facts, e.g. 7-3=4 so we know 27-3=, 47-3=, 77 - 4 = , etc.Counting up Find a difference between two numbers on a line, e.g. 51-47

Year 3 Year 4 **Taking away Taking away** Use place value to subtract, e.g. 348 - 300 or 348 - 40 or 348 - 8 Use place value to subtract, e.g. 4748 - 4000 or 4748 - 8, etc. Taking away multiples of 10, 100 and £1, e.g. 476 - 40 = 436, 476 - 300 = 176. Take away multiples of 10, 100, 1000, £1, 10p or 0.1, e.g. 8392 - 50 or 6723 -£4.76 - £2 = £2.763000 or £3.74 - 30p or 5.6 - 0.2 Partitioning, e.g. 68 - 42 as 60 - 40 and 8 - 2 or £6.84 - £2.40 as £6 - £2 and Partitioning, e.g. £5.87 – £3.04 as £5 – £3 and 7p - 4p or 7493 - 2020 as Subtraction 80p - 40p7000 - 2000 and 90 - 20Count back in hundreds, tens then ones, e.g. 763 – 121 as 763 – 100 (663) Count back, e.g. 6482 - 1301 as 6482 - 1000 then - 300 then - 1 (5181) then subtract 20 (643) then subtract 1 (642) Subtract near multiples, e.g. 3522 - 1999 or £34.86 - £19.99 Subtract near multiples, e.g. 648 - 199 or 86 - 39 Counting up Counting up Find a difference between two numbers by counting up from the smaller to Find a difference between two numbers by counting up from the smaller to the larger, e.q. 506 - 387 106 the larger, e.g. 121 - 87 10 20 10 390 506 400 120 121 100 **Using number facts** Using number facts Number bonds to 10, 100 and derived facts, e.g. 100 - 76 = 24, 1.0 - 0.6 = 0.4Number bonds to 100, e.g. 100 - 35 = 65, 100 - 48 = 52, etc. Number bonds to £1 and £10, e.g. £1.00 – 86p = 14p or £10 – £3.40 = £6.60 Develop counting up subtraction Expanded column subtraction Begin to use compact column subtraction 30 110 16 6 11 16 600 Written Subtraction 7 2 8 161 170 200 300 60 Use counting up subtraction to find change from £1 and £10 Use counting up subtraction to find change from £10, £20, £50 and £100 16 p £3 £5 £10 25p +34.75 450 Recognise complements of any fraction to 1, e.g. $1 - \frac{1}{4} = \frac{34}{4}$ or $1 - \frac{2}{3} = \frac{1}{3}$ Subtract like fractions, e.g. $\frac{3}{8} - \frac{1}{8} = \frac{2}{8}$

Year 5 Year 6 **Taking away Taking away** Use place value to subtract decimals, e.g. 4.58 – 0.08 or 6.26 – 0.2, etc. Use place value to subtract decimals, e.g. 7.782 - 0.08 or 16.263 - 0.2, etc. Take away multiples of powers of 10, e.g. 15,672 – 300 or 4.82 – 2 or Take away multiples of powers of 10, e.g. 132,956 – 400 or 686,109 – 40,000 2.71 - 0.5 or 4.68 - 0.02 or 7.823 - 0.5 Partition or count back, e.g. 3964 - 1051 or 5.72 - 2.01 Partition or count back, e.g. 3964 - 1051 or 5.72 - 2.01 Subtract near multiples, e.g. 86,456 – 9999 or 3.58 – 1.99 Subtract near multiples, e.g. 360,078 - 99,998 or 12.831 - 0.99 Counting up Counting up Find a difference between two numbers by counting up from the smaller to Count up to subtract numbers from multiples of 10, 100, 1000, 10,000 the larger, e.g. 2009 - 869 Find a difference between two decimal numbers by counting up from the 1009 Mental Subtraction smaller to the larger, e.g. 1.2 - 0.870.03 2009 1000 Find change using shopkeepers' addition, e.g. buy toy for £6.89 using £10 0.87 0.9 **Using number facts** llp Derived facts from number bonds to 10 and 100, e.g. 0.1 - 0.075 using 75 + 25 = 100 or 5 - 0.65 using 65 + 35 = 100£10 0.35 **Using number facts** Derived facts from number bonds to 10 and 100, e.g. 2 - 0.45 using 45 + 55 =0.65 100 or 3.00 - 0.86 using 86 + 14 = 100 0.04 Number bonds to £1, £10 and £100, e.g. £7.00 - £4.37 or £100 - £66.20 using 20p + 80p = £1 and £67 + £33 = £100. Number bonds to £1, £10 and £100, e.g. £4.00 – £3.86p = 14p or £100 – £66 using 66 + 34 = £100

Year 5 Year 6 Compact column subtraction for numbers with up to 5 digits Compact column subtraction for large numbers 0 15 13 1 14 X 8 3 Z K Written Subtraction Continue to use counting up subtraction for subtractions involving money, Use counting up subtraction when dealing with money, e.g. £100 - £78.56 or including finding change or, e.g. £50 - £28.76 £45.23 - £27.57 +20 24p 44p £50 F29 E80 £100 Use counting up subtraction to subtract decimal numbers, e.g. 4.2 - 1.74 Use counting up subtraction to subtract decimal numbers, e.g. 13.1 - 2.370.06 0.13 0.50 10. 2.0 3.00 2.37 2.50 Subtracting fractions with like denominators, e.g. $1\frac{1}{4} - \frac{3}{8}$ as $1^{2}/8 - \frac{3}{8}$ or $\frac{10}{8} - \frac{3}{8} = \frac{7}{8}$ Subtracting fractions with unlike denominators, e.g. $1\frac{1}{4} - \frac{2}{3}$ as $1\frac{3}{12} - \frac{8}{12}$ or $\frac{15}{12} - \frac{8}{12} = \frac{7}{12}$