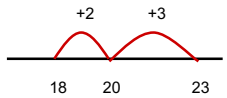
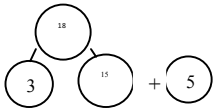
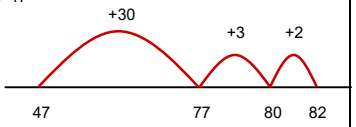
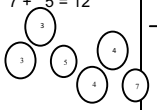
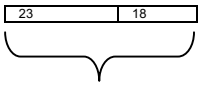
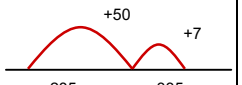
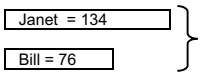
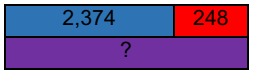
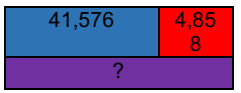
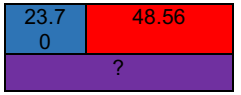
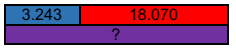
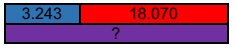
ADDITION | **AGE-RELATED EXPECTATIONS** | ← **Recording** → | Bar Model | Rapid Recall | Mental calculation

Estimation and checking ↓

YR	Addition as 'combining 2 groups'	Practical / recorded using ICT (eg digital photos / pictures on IWB)	Pictures / Objects I eat 2 cakes and my friend eats 3. How many cakes did we eat altogether? Might be recorded as: *2 + 3 = 5* 		Symbols 8 people are on the bus. 5 more get on at the next stop. How many people are on the bus now? [Might be recorded as: *8 + 5 = 13*]		Tens frame (Might be recorded as 3+2=5)	1 more (nos up to 10)	Counting on
KS1	Addition as 'counting on' U + U (bridging 10) TU + U (bridging 20)	Practical / recorded using ICT	Pictures / Symbols (*see above*)	Number track / Number line – jumps of 1 (modelled using bead strings) 18 + 5 = 23 	Number line (efficient jumps) 18 + 5  18 20 23	No number line 18 + 5 18 + 2 = 20 20 + 3 = 23		Pairs to 10 and to 20 1 or 10 more than a number	U + TU U + multiple of 10 TU + multiple of 10 +9 (by +10, -1)
	TU + TU (bridging 10s)	Pictures / Symbols 23 + 12 = 35 	Number line (efficient jumps) 35 + 47  47 77 80 82	No number line 35 + 47 47 + 30 = 77 77 + 3 = 80 80 + 2 = 82	Partitioning 35 + 47 40 + 30 = 70 7 + 5 = 12 	Expanded 35+47= 30 + 5 40 + 7 70 + 12 = 82	There are 23 marbles in a jar and Fred puts in 18 more. How many altogether?  23 + 18 = (See partitioning)	Pairs to 20 fluently Derive related facts to 100 *Use multiples of 5 totalling 60 (time)*	TU + U / multiple of 10 U + U + U
Lower KS2	TU + TU (bridging 100) HTU + U (incl bridging 100s) HTU + TU (not bridging 1000) HTU + HTU (not bridging 1000)	Number line 57 + 285 = 342  285 335 342	No number line 57 + 285 285 + 50 = 335 335 + 7 = 342	Partitioning 57 + 285 200 + 0 = 200 80 + 50 = 130 5 + 7 = 12	**Expanded** vertical 336 + 87 = 423 300 and 30 and 6 + 80 and 7 300 and 110 and 13	**Expanded** vertical 336 + 87 13 110 300 423	Janet has 134 books. Bill has 76 books. How many altogether?  Janet = 134 Bill = 76 134 + 76 =	Addition facts to 100 (multiples of 5 and 10) Pairs of two-digit multiples of 10 Multiples of 50 that total 1000 Addition of fractions (see fractions)	TU + U / TU TU + near multiple of 10
	Th H T U + Th H T U (incl bridging 1000) Decimals: money (£7.85 + £3.49) Money-decimal notation; Measures Km-m	Partitioning 2374 + 248 2,000 + 0 = 2,000 300 + 200 = 500 70 + 40 = 110 4 + 8 = 12 2,622	No number line (partition one number –leading to mental calculation) 2374 + 248 2,374 + 200 = 2,574 2,574 + 40 = 2,614 2,614 + 8 = 2,622	**Expanded** vertical 2,374 + 248 12 110 500 2,000 2,622	**Compact** vertical 2,374 + 248 2,622 1 1	Bar Visualisation  2,374 248 ?	Recall addition facts to 100 Recall addition facts for multiples of 10 / 100, totalling 1000 Derive & use addition fact for 1 & 10 inc decimals + Fractions see fraction progression sheet	Add 2 & 3 digit numbers Add decimals to 1 D.P.
Y5	**Y5** Tth Th H T U + Th H T U (41,576 + 4,858) Inc. Decimals up to 2dp (23.7 + 48.56) Measures Km-m, m-cm, cm-mm; L-ml; Kg-g	**Expanded** vertical 41,576 + 4,858 14 120 1,300 5,000 40,000 46,434	**Expanded** vertical 23.70 + 48.56 0.06 1.20 11.00 60.00 72.26	**Compact** vertical 41,576 + 4,858 46,434 1 1 1	**Compact** vertical 23.70 + 48.56 72.26 1 1	Bar Visualisation  41,576 4,858 ?  23.70 48.56 ?	(derive) addition facts up to 1 (2dp)	Decimal + Decimal (eg 9.72 + 3.48)

		Expanded vertical	**Compact** vertical		Bar Visualisation		~~Consolidate / extend Y5 including:~~
Y6	~~**Y6**~~ *Consolidate / extend Y5 including:* Three numbers Decimals up to 3dp (context: measures) All Measures	3.243 k.g + 18.070 k.g 0.003 k.g 0.110 k.g 0.200 k.g 21.000 k.g 21.313 k.g	3.243 sec + 18.070 sec 21.313 sec 1 1		  (as above)	Larger: Decimal + Decimal (e.g. 12,439.7 + 343.4)	*Consolidate / extend Y5 including:* Three numbers Decimals up to 3dp (context: measures) All Measures