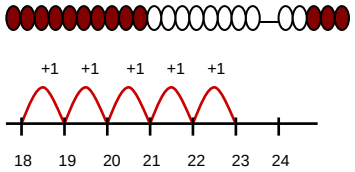
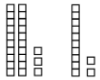
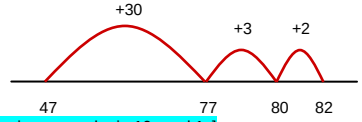
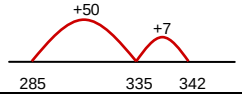
Addition

Recording →

	AGE-RELATED EXPECTATIONS	Practical / recorded using ICT (eg digital photos / pictures on IWB)	Pictures / Objects	Symbols	Rapid Recall	Mental calculation
YR	Addition as 'combining 2 groups'		I buy 2 cakes and my friend buys 3 cakes. How many cakes did we buy altogether? Might be recorded as: *2 + 3 = 5* 	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*]	1 more (nos up to 10)	(*see recording*)
Y1	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  No number line 18 + 5 = 23 Always put larger number first	Number bonds up to 10 1 or 10 more than a number Doubles up to 10	U + multiple of 10 TU + multiple of 10
Y2	TU + TU (bridging 10s / 100)	Pictures / Symbols 23 + 12 = 35 	Number line (efficient jumps on an empty number line) 35 + 47 = 82  [Also jumps can be in 10s and 1s]	Partitioning 35 + 47 40 + 30 = 70 7 + 5 = 12 70 + 12 = 82	Number bonds up to 20 Pairs to 100 (using multiples of 10)	TU + U / multiple of 10 U + U + U +9 (by +10, -1)
Y3	TU + TU (bridging 100) HTU + TU (not bridging 1000) HTU + HTU (not bridging 1000)	Empty number line 57 + 285 = 342 (Start with most significant number i.e. 285)  	Partitioning 57 + 285 200 + 0 = 200 80 + 50 = 130 5 + 7 = 12 200 + 130 + 12 = 342	**Expanded** vertical 336 + 87 13 110 300 423	Number bonds to 20 / 100 / 1000 Pairs of two-digit multiples of 5 and 10 that total 100 Multiples of 50 that total 1000	TU + U / TU TU + near multiple of 10
Y4	HTU + TU HTU + HTU (incl bridging 1000) Decimals: money (£7.85 + £3.49)	Partitioning 374 + 248 300 + 200 = 500 70 + 40 = 110 4 + 8 = 12 500 + 110 + 12 = 622	**Expanded** vertical 374 + 248 12 110 500 622	**Compact** vertical 374 + 248 622 1 1	Bonds to 1000 Derive sums of pairs of multiples of 10 / 100 / 1000 (Multiples of 50 that total 1000) Pairs of fractions to 1	TU + TU (Pairs of multiples of 10 / 100 / 1000) Three, 2-digit multiples of 10 Two, 3-digit multiples of 10
Y5	ThHTU + HTU Decimals up to 2dp (23.7 + 48.56)	Partitioning 1576 + 858 1000 + 0 = 1000 500 + 800 = 1300 70 + 50 = 120 6 + 8 = 14 1000 + 1300 + 120 + 14 = 2434	**Expanded** vertical 23.70 + 48.56 0.06 1.20 11.00 60.00 72.26	**Compact** vertical 23.70 + 48.56 72.26 1 1	(derive) Bonds up to 1 (2dp) (derive) Bonds up to 10 (1dp)	Decimal + Decimal (eg 19.7 + 3.4)

Y6	*Consolidate / extend Y5 including:* Three numbers Decimals up to 3dp (context: measures)	Partitioning 3.243 km + 18.07 km 3 + 18 = 21 0.2 + 0.0 = 0.2 0.04 + 0.07 = 0.11 0.003 + 0 = 0.003 21 + 0.2 + 0.11 + 0.003 =21.313	**Expanded** vertical 3.243 + 18.070 0.003 0.110 0.200 21.000	**Compact** vertical 3.243 + 18.070 21.313 1 1	(as above)	Integer / decimal (1dp) + Integer / decimal (1dp)

Your child may use methods from the year group above or below depending on their number and calculation skills.