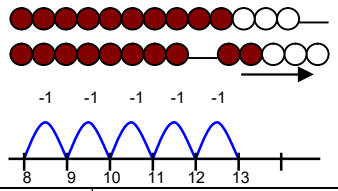
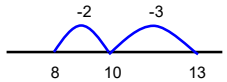
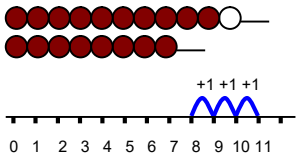
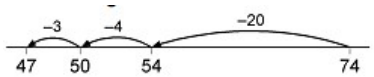
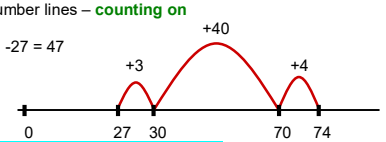
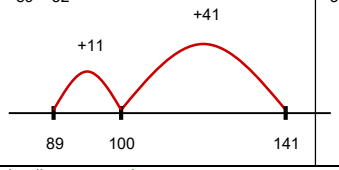
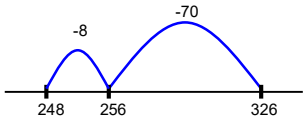
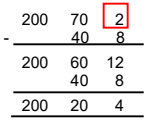
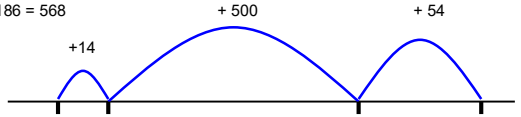
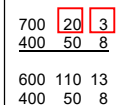
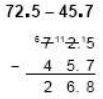
SUBTRACTION

Estimation and checking

	AGE-RELATED EXPECTATIONS	Recording			Rapid Recall	Mental Calculation
YR	Subtraction as 'taking away' from a group U – U	Practical or recorded using ICT (eg digital photos)	Pictures / Objects I have five cakes. I eat two of them. How many do I have left? Might be recorded as: *5 – 2 = 3*		Symbols Mum baked 9 biscuits. I ate 5. How many were left? [Might be recorded as: *9 – 5 = 4*] 	1 less (nos up to 20)	(*see recording*)
Y1	Solve 1 step problems Subtraction as 'taking away' and 'difference' (by counting on) U – U TU – U (bridging 10) within 20	Practical or recorded using ICT Pictures / Symbols (*see above*)	**Taking away** – jumps of 1 (modelled using bead strings) 13 – 5 =8  	**Taking away** (efficient jumps) 13 – 5 = 8  No number line: 13 – 3 = 10 10 – 2 = 8	**Counting on** – jumps of 1 (modelled using bead strings) 11 – 8 = 3  	Subtraction facts WITHIN 20 1 / 10 less than a number Missing number problems 7 = ☐ - 9	TU – multiple of 10
Y2	Solve problems- Subtraction as inverse of addition TU – U (bridging 10) TU – TU(bridging 10s) TU – multiples of 10	Pictures / Symbols 45 – 22 = 23 	Number lines - **taking away** 74 -27 = 47  [Also jumps can be in 10s and 1s]	Number lines – **counting on** 74 -27 = 47  [Also jumps can be in 10s and 1s]	Subtraction facts to 20 Differences of multiples of 10	Difference by counting up TU – U / multiple of 10
Y3	**Formal Written Method** TU – TU HTU – TU HTU – HTU **End Y3 – column**	Number line – **counting on** 141 - 89 = 52  	Number line - **taking away** 326 – 78 = 248  Vertical number line may be used to record calculation	**Decomposition** 272 – 48 = 224 [**Red Alert**]  	10/ 100 less than a number	HTU – U / multiples of 10 & 100 HTU – HTU (by finding the difference) TU – near multiple of 10 (positive answers)
Y4	**Formal Written Method** **Solve 2 step problems** HTU – TU HTU – HTU ThHTU - ThHTU Decimals: money (£7.85 - £3.49)	Number lines – **counting on** 754 – 186 = 568  Vertical number line may be used to record calculation	**Decomposition** 723 – 458 = 265 [**Red Alert**]  	**Decomposition** (compact method) 	Count backwards through 0 including negative numbers Derive differences of pairs of multiples of 10 / 100 / 1000	TU – TU Subtract pairs of multiples of 10 / 100 / 1000 (Th)HTU – (Th)HTU (small difference)
Y5/ Y6	**Formal Written Method** **Multi step problems** Whole numbers with more than 4 digits ThHTU – HTU Decimals up to 2dp (72.5 – 45.7) *Consolidate / extend Y5 including:* Decimal to 3 dp relating to measures	**Decomposition** (compact method) 14723 – 2934 		**Decomposition** (compact method) 72.5 – 45.7  	Use number facts for mental subtraction 9 – 2 = 7 0.9 – 0.2 = 0.7 0.09 – 0.02 = 0.07	Near multiple of 1000 – Near multiple of 1000 (eg 6070 – 4097) Decimal – Decimal (eg 9.5 – 3.7) Y5 – Large numbers (12,462 – 2,300 = 10,162) Y6 - Integer / decimal (1dp) – Integer / decimal (1dp)