Statements from the curriculum. Method for calculation	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition, total, altogether, sum of, add, plus, increase, more than, count on.	Find the total number of items in two groups by counting all of them. Find one more or one less from a group of up to 10 objects. In practical activities and role play use the vocabulary involved in adding and subtracting. Start to record pictorially.	Add 1 digit and 2 digit numbers to 20 including 0. Represent and use number bonds within 20. Introduce recording vertically if ready. 12 + 6 = 18 11 + 11 + 11 12 17 + 12 = 29 10 + 10 = 20, 7 + 2 = 9	Show addition of 2 numbers can be done in any order. Introduce simple column method (2 digits +1/2 digits) 4 4 + 3 5 7 9	Column (up to 3 digits) 789 + 642 becomes 7 8 9 + 6 4 2 1 4 3 1 1 1 Answer: 1431	Column (up to 4 digits) 5324 + 6626 becomes 5 7 2 4 + 6 6 2 6 1 2 3 5 0	Column (more than 4 digits, more than 2 numbers) 724 + 562 + 4211 + 6626 becomes 5 324 + 6626 becomes 5 7 2 4 + 6 6 2 6 1 2 3 5 0 1 1 1 + 6 6 2 3 1 2 1 2 3 2 1 1	Column (move onto decimals, different number of digits using '0' to fill any gaps, etc) \pounds 6 7 0 6.7 + 56 + 6.73 becomes \pounds 6 7 0 5 6 0 0 \pounds 6 7 3 6 0 0 4 6 7 3 \pounds 1 9 4 3 4 3 6 9 4 3
Take away , minus, decrease, less than, subtract, find the difference, count back	Find one more or one less from a group of up to 10 objects. In practical activities, use the vocabulary involved in adding and subtracting. Start to record pictorially.	Subtract 1 digit and 2 digit numbers to 20 including 0. Represent and use related subtraction facts for number bonds within 20. Count on using a number line. 19 - 7 = 12 3 + 9 = 12 7 10 19	Recognise subtraction of cannot be done in any order. Use pictorial or concrete objects. 36 - 12 = 24 $\frac{8}{12} + \frac{10}{20} + \frac{6}{30} - \frac{24}{30}$ Introduce simple column subtraction. $\frac{4}{12} 7$ $-\frac{3}{12} 5$ $\frac{1}{12}$	Column (up to 3 digits) 874 – 523 becomes 8 7 4 – 5 2 3 3 5 1 Answer: 351	Column (up to 4 digits) introducing 'exchanging' 932 - 457 becomes 932 - 457 2 - 457 475 Answer: 475	Column (more than 4 digits) 15316 - 2578 becomes 4 1.2 10 16 1 5 3 1 6 - 2 5 7 8 1 2 7 3 8	Column (move onto decimals, different number of digits, etc) $\begin{array}{c} \pounds 15.16 - \pounds 2.78 \text{ becomes} \\ 4 & 10 & 16 \\ \pounds & 1 & 5 & 1 & 6 \\ - & \pounds & 2 & . & 7 & 8 \\ \hline \pounds & 1 & 2 & . & 3 & 8 \\ \end{array}$
Multiply, multiplied by, product, times, lots of, groups of.	Record using marks they can interpret and explain. Begin to identify own mathematical problems based on own interests and fascinations	Start to use arrays: e.g. *** *** Solve one step problems using concrete objects and pictoral representations.	Calculate statements for multiplication within the times tables and record using x and =. Use arrays (see Y1), repeated addition (3 + 3 + 3 + 3 = 12) and x table facts.	Mental moving to formal: grid or short. (2 digit x 1 digit). 24 × 6 becomes $\begin{array}{r} 2 & 4 \\ \hline & 2 \\ \hline & 1 & 4 \\ \hline & 2 \\ \hline & \\ & \\ \hline & \\ & \\ & \\ & \\ & \\ & \\ &$	Short multiplication (2/3 digits by one digit) 342 × 7 becomes 3 4 2 × 7 2 3 9 4 2 1 Answer: 2394	Short and long multiplication (4 digits by 1 or 2 digits) 2741 × 6 becomes 2 7 4 1 × 6 1 6 4 4 6 2 4 Answer: 16 446 $24 \times 16 becomes$ 2 4 2 7 4 1 × 1 6 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	Long multiplication (4 digits, by 2 digits, including decimals). For decimals, ignore the decimal point, calculate as normal, then count how many digits altogether in the calculation after the decimal point. Place the point in your answer at the end so you have the same number of digits after the decimal point. Estimation is key to checking answers are accurate! 3124 x 26 becomes 3 1 2 4 2 4 x 2 6 1 8 7 4 4 1 2 6 2 4 8 0 8 1 2 2 4 1 1 1
Times table focus			2 x, 5 x and 10 x	3 x, 4 x, 8 x	All x tables up to 12 x 12	Children should be fluent and secure with all x tables and use these efficiently.	Children should be able to adapt x tables confidently to calculate 0.6 x 9, 70 x 5, 50 x 90, 80 x 0.7, etc.
Divide, divided by, share equally, factors, remainder, quotient. How many times will it fit into? How many 3s in?	Record using marks they can interpret and explain. Begin to identify own mathematical problems based on own interests and fascinations	Start to use arrays: e.g. *** • *** Solve one step problems using concrete objects and pictoral	Calculate statements for division within the times tables and record using ÷ and =. Recognise that division of two numbers cannot be done in any order. Link methods above for multiplication to	Calculate statements for division within the times tables and record using \dot{z} and =. Recognise that division of two numbers cannot be done in any order. Reinforce Y2	Short division (2/3 digits by one digit) 98 ÷ 7 becomes 1 4 7 9 8 Answer: 14	Short. Interpret remainders appropriately for the context. (4 digit by one digit) 432 ÷ 5 becomes 496 ÷ 11 becomes $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Short and long. Interpret remainders as whole number remainder, fraction, decimal or by rounding. (3/4 digit ÷ 2 digit) 432 + 15 becomes 15 4 4 3 13 2 1 5 $2 8 432 + 15 becomes$ 15 4 4 3 13 2 1 5 $2 8 432 - 15 5 432 + 15 becomes$ Children will need to list multiples of 15 if choosing to solve using the short method. 320 - 15 - 20 - 20 - 15 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2

