

Mental Maths Progression

Drawing from the national curriculum, the statements below for each year group show the mental maths skills and basic number facts the children need to be fluent in by the end of that academic year.

Mental Maths skills relating to the Ready to Progress Criteria are highlighted in bold.

Year Group	Number/Place Value	Addition and Subtraction	Multiplication and Division
Year 1	<ul style="list-style-type: none"> Count to and across 100, forwards and backwards (starting from 0, 1, or any given number) Count in multiples of 2s, 5s and 10s Find one more or one less of a number given Read and write numbers 1-20 in numerals and words 	<ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 10 (e.g. $3 + 7 = 10$ / $7 + 3 = 10$ / $10 - 3 = 7$ / $10 - 7 = 3$) 	<ul style="list-style-type: none"> Count in 2s, 5s and 10s Doubling and halving within 10
Year 2	<ul style="list-style-type: none"> Count in steps of 2, 3 and 5 from any given number, forwards and backwards Count in 10s from any given numbers, forward and backwards Read and write numbers to at least 100 in numerals and words 	<ul style="list-style-type: none"> Secure fluency in number bonds and related subtraction facts within 10 Recall and use addition and subtraction facts to 20 fluently add and subtract numbers mentally, including: a two-digit number and ones, a two-digit number and tens 	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables (including recognising odd and even numbers) Doubling and halving within 30
Year 3	<ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100; Find 10 or 100 more or less than a given number Read and write number to a 1000 in numerals and words 	<ul style="list-style-type: none"> Secure fluency in number bonds and related subtraction facts within 20 Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds 	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 5, 10, 2, 4 and 8 multiplication tables Multiplying 2 digit numbers by 10 (e.g. $24 \times 10 = 240$) Doubles and halves of multiples of 10 to 100 (e.g. double 60 = 120)

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Year Group	Number/Place Value	Addition and Subtraction	Multiplication and Division
Year 4	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000 Find 1000 more or less than a given number Count backwards through zero to include negative numbers Round any number to the nearest 10, 100 or 1000 	<ul style="list-style-type: none"> Addition and subtraction of multiples of 10 (e.g. $70+30=100$) Addition and subtraction facts of multiples of 100 where the answer is 1000 or less (e.g. $300+400=700$) 	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12 Multiplying 2 digit numbers by 10 or 100 (e.g. $24 \times 100 = 2400$) Doubles and halves of multiples of 10 to 100 (e.g. double 60 = 120; half of 50 = 25) Halves of any even number to 100 (e.g. half of 22 = 11)
Year 5	<ul style="list-style-type: none"> Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Count forwards and backwards with positive and negative whole numbers, including through zero Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Recall decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$, and for multiples of these fractions 	<ul style="list-style-type: none"> Addition & subtraction facts of multiples of 10, 100 and 1000 (e.g. $70 + 30 = 100$; $800+500 = 1300$; $3000+4000 = 7000$) 	<ul style="list-style-type: none"> Secure fluency in multiplication and division facts for multiplication tables up to 12×12 Multiply & divide numbers by 10 and 100 (e.g. $24 \times 100 = 2400$, $45/100 = 0.45$) Doubles and halves of multiples of 10 to 100 (e.g. double 60 = 120; half of 50 = 25) Halves of any number to 100 (e.g. half of 22 = 11; half of 51 = 25.5) Squares of all numbers up to 12 Cubes of 2, 3, 4 and 5
Year 6	<ul style="list-style-type: none"> Round any whole numbers to a required degree of accuracy Read, write, order and compare numbers up to 10, 000,000 	<ul style="list-style-type: none"> Addition & subtraction facts of multiples of 10, 100 and 1000 (e.g. $70 + 30 = 100$; $800+500 = 1300$; $3000+4000 = 7000$) 	<ul style="list-style-type: none"> Multiply & divide numbers by 10, 100 and 1000 (e.g. $24 \times 100 = 2400$, $45/100 = 0.45$) Doubles and halves of multiples of 10 to 100 (e.g. double 60 = 120; half of 50 = 25) Halves of any number to 100 (e.g. half of 22 = 11; half of 51 = 25.5) Multiplication of multiples of 10 and 100 based on known facts (e.g. $40 \times 40 = 1600$) Squares of all numbers up to 12 Cubes of 2, 3, 4 and 5