

Glenaire Primary School

Mental Calculation Policy

Throughout school, children work on mental calculations using a variety of strategies.

Each child has their own targets based on mental strategies. These targets are taken directly from the Passports that each child is working on. Teacher's regularly assess the children against these targets and encourage them to practise at home.

Each class has a set of Non Negotiable mental objectives (taken from the New Curriculum) These objectives are tailored to the children's needs with those on the SEN/G&T register taken into account and differentiated for accordingly.

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
- Count to 20 - Count reliably at least 10 objects - Estimate the number of objects and check by counting - Recognise written numerals 1 to 9 - Say one <i>more</i> and one <i>less</i> to 10 - Add two small groups of	- Count on and back in 1s, 2s, 5s and 10s. - Can double to at least 10. - Read ,write and order numbers from 0 to at least 100, saying <i>one more</i> and <i>one less</i>. - Add and subtract two numbers under 10. - Know and use bonds to 20 and	- Count and order numbers to at least 100 - Explain the value of digits to 2 digits. - Read, write and order numbers to 100. - Count on and back in 1,2,3,5 and 10 from any number under 100. - Know and use all numbers bonds to 20	- Read, write and order numbers to 1000, knowing the value of each digit. - Know by heart addition and subtraction facts to 20. - Use pairs of numbers that total 20 and subtraction facts. - Know by heart x2, x3, x4, x5, x6,	- Read, write and order numbers to 10,000 knowing the value of each digit. - Count in multiples of 6,7,9,25 and 1000 - Count below 0 to negative numbers - Find 1000 more or less than any given number	- Read, write and order numbers to 1,000,000 and to 2dp. - Multiply and divide positive integers up to 10,000 by 10 or 100 - Calculate halves and doubles of decimals to 1dp - Count forwards	- Multiply and divide decimals mentally by 10 or 100 and 1000 to 3dp - Read, write and order numbers to 10,000,000 - Round any whole number with a degree of accuracy - Perform mental calculations with larger

objects Use <i>more</i> and <i>less</i> to compare two numbers	total to at least 5 (including subtraction facts)	- Know all multiples of 10 bonds to 100 - Double all numbers to 10 and halve all even numbers up to 20. - Know by heart $\times 2$, $\times 5$ and $\times 10$ - Mentally add 2 digit and 1 digit number, a 2 digit number and a ten, 2 two digit numbers, 3 one digit numbers.	$\times 8$ and $\times 10$ and division facts. - Count from 0 in multiples of 4, 8, 50 and 100 - find 10 or 100 more or less than a given number - Mentally add a 3 digit number to a 1 digit number, add a 3 digit number to a tens and add a 3 digit number to a hundred. - Count up and down in tenths.	- Know by heart all times tables to 12×12 and division facts. - Round decimals with two decimal places to the nearest whole number and to one dp - Add and subtract pairs of 2 digit numbers. - Multiply and divide 2 digit numbers by 10 and 100. - Read Roman numerals to 100 - Use factor pairs to calculate mentally - Count up and down in hundredths	and backwards with negative whole numbers - Explain place value to 1dp - Round any number up to 1,000,000 - Know by heart all multiplication and division facts to 12×12 - Double numbers to 100 mentally. - Count forwards and backwards to 1,000,000 in powers of 10 - Read Roman numerals to 1000 - Add and subtract increasingly larger numbers mentally.	numbers across zero and including negative numbers. - Use multiplication facts to derive squares of numbers to 12×12 - Order a mixed set of numbers to 3dp - Work out % of whole numbers - Multiply and divide decimals by 10 or 100 mentally
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