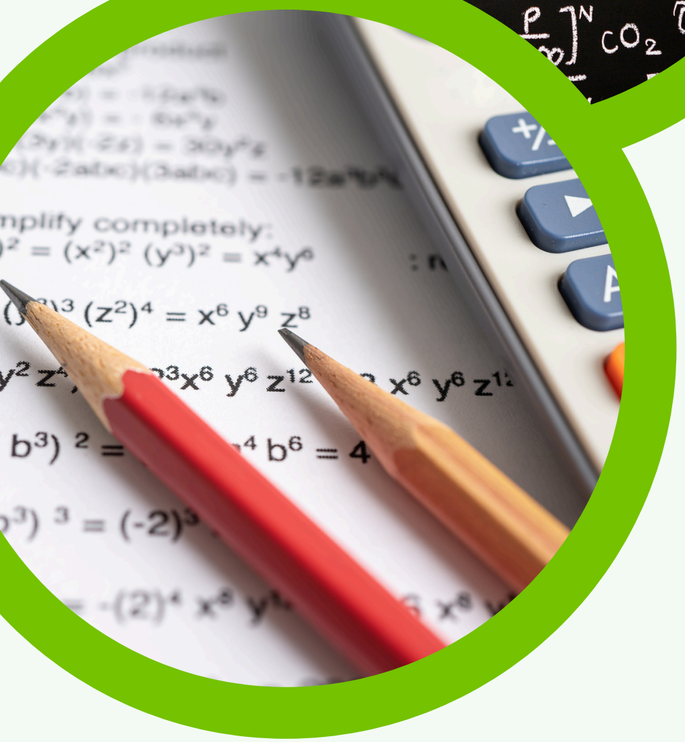
Montem Academy

Basic skills Expectations

Maths





Maths

Intent

At Montem our intent is to develop our pupil's ability to reason mathematically, problem solve and develop procedural fluency and conceptual understanding in each strand of the curriculum.

To achieve our intent, we provide a rich, balanced and progressive curriculum which caters for the needs of all pupils through varied and high-quality activities. Pupils are required to explore maths in depth, using mathematical vocabulary to reason and explain their workings.

At the core of our curriculum is the concrete, pictorial and abstract approach to maths. They are taught and encouraged to explain their choice of methods and develop their mathematical reasoning skills. We encourage resilience and conceptual variation and an acceptance that struggle is often a necessary step in learning.





Year EYFS Expectations

By the end of EYFS, all pupils will be able to achieve the following skills using a method of their choice with confidence:

To be able to form numbers correctly
To be able to count and order numbers to 10
To be able to say one more or one less of a given numbers to 10
To be able to read numbers to 10 with confidence
To understand pace value of numbers to 10
To be able to estimate using numbers to 10
To be able to use the correct vocabulary (more/less)
To be able to share up to 10 into 2
To be able to add and subtract numbers to 10
To be able to name 2D shapes (square/triangle)
To know number bonds to 5

Everyone to Excel through Pride and Ambition



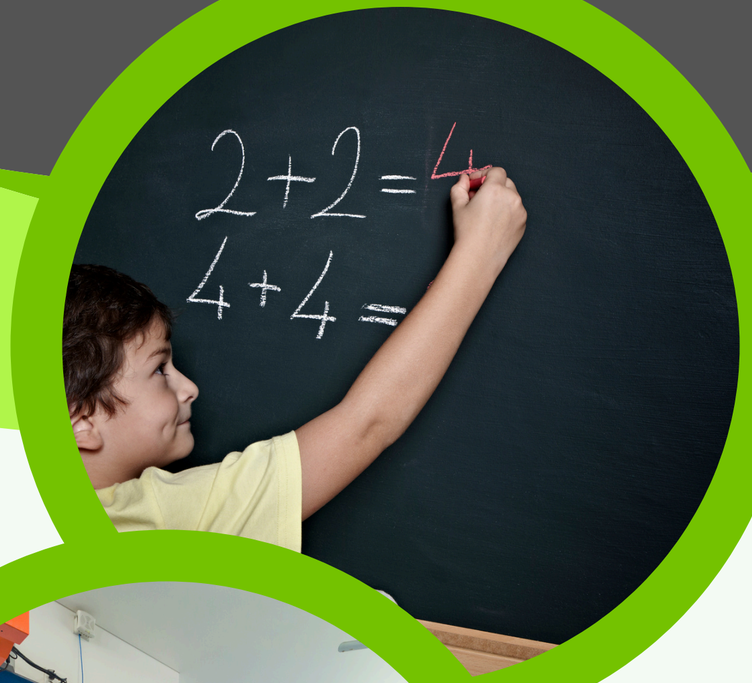


Year 1 Expectations

By the end of Year 1, all pupils will be able to achieve the following skills using a method of their choice with confidence

To be able to count forward and backwards from 10
To be able to order numbers to 20
To be able to form numbers correctly (12/21)
To know number bonds to 10
To be able to find a number on a number line up to 20
To know the difference between teen and ty numbers
To be able to write numbers in order to 20
To be able to use vocabulary (more/less/between)
To be able to count in 2's, 5's and 10's
To be able to know halve of numbers to 20
To know the properties of 2D shapes (square, triangle, rectangle and circle)
To be able to name 3D shapes (sphere/cube)

Everyone to Excel through Pride and Ambition





Year 2 Expectations

By the end of Year 2, all pupils will be able to achieve the following skills with confidence

To be able to count to 50 forward and backwards
To be able to partition into 10's and 1's
To understand the difference between the 4 operations
Too know number bonds to 10 fluently
To know the 2,5 and 10 times tables
To know 10 more or 10 less than a given number to
To know halve and quarters of a shape and object practically and to name them
To be able to add a 2 digit number with a 1 digit number
To be able to add 3 single digit numbers (making 10)

Everyone to Excel through Pride and Ambition





Year 3 Expectations

By the end of Year 3, all pupils will be able to achieve the following skills with confidence

To know the 3,4 and 9 times table
To have a good understanding of place value (units and tens)
To recognise and write numbers up to 100
To be able to count forward and backwards in 10's and 100's
To add and subtract 2 digit numbers with 2 digit numbers up to 100
To know halve and quarters of shapes, objects and numbers
To know number bonds to 20 fluently
To have a good understanding of what multiplication is
To recognise what the inverse operation is
To order numbers in ascending and descending numbers up to 100
To be able to compare numbers (biggest/smallest) and why

Everyone to Excel through Pride and Ambition





Year 4 Expectations

By the end of Year 4, all pupils will be able to achieve the following skills with confidence

To have a good understanding of place value (U, T, H)
To be able to multiply and divide whole numbers (2 digit by 1 digit)
To know the 6, 7 and 8 times tables
To be able to round to the nearest 10
To add and subtract 3 digit numbers using the count method
To order numbers in ascending and descending order up to 1000
To be able to compare numbers up to 2000
To be able to find equivalent fraction strips
To indent fractions of shapes up to tenths
To count up and down in tens and fifties
To know half past, quarter past and quarter to the hour
To know odd and even numbers

Everyone to Excel through Pride and Ambition



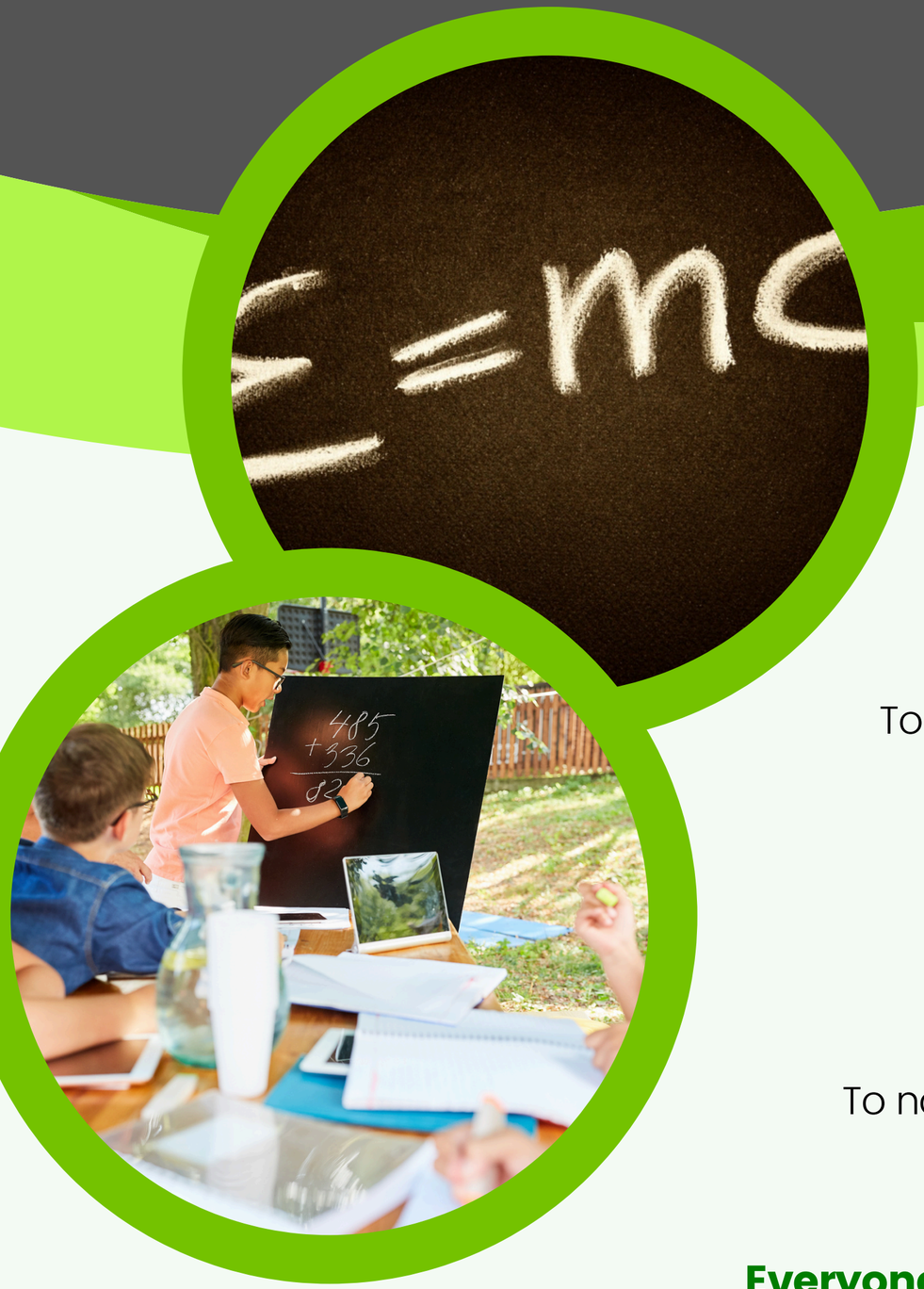


Year 5 Expectations

By the end of Year 5, all pupils will be able to achieve the following skills with confidence

To have a secure understanding of place value up to 1000
To multiply ad divide 3 digit by 1 digit number
To be able to calculate the times tables up to 12x12
To be able to round whole numbers to the nearest 10 and 100
To be able to round to the nearest pound
To be able to add and subtract 4 digit numbers using the column methods
To order numbers up to 10000
To order decimal numbers involving tenths
To order simple fractions e.g. half, quarters, three quarters
To order fractions with the same denominator
To know that there is 60 minutes in an hour and 60 seconds in a m ute

Everyone to Excel through Pride and Ambition

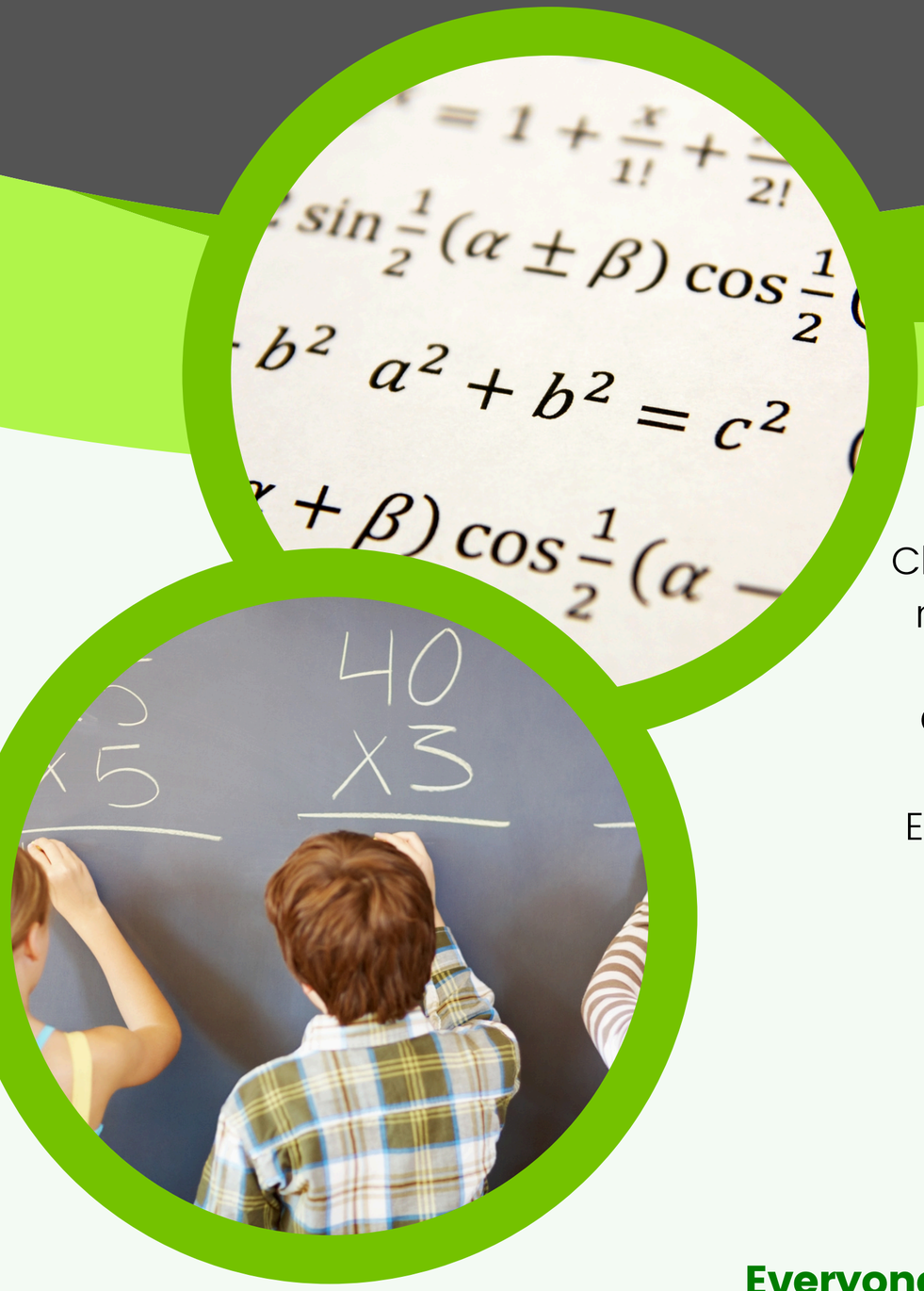


Year 6 Expectations

By the end of Year 6, all pupils will be able to achieve the following skills with confidence

To have a secure understanding of place up to 10000
To have a secure understanding of place for decimals – 1/10 and 1/100
To be able to add and subtract any pair numbers with the same number of digits
To be able to multiply a 2 digit number by a 2 digit number
To be able to divide a 3 digit number by a 1 digit number
To be able to tell the time using both 12 and 2 hour clocks
To be able to round whole numbers to 10, 100 and 1000
To know the times table up to 12x12
To know and understand basic fractions and decimal equivalents
To now fraction equivalents of basic percentages and fractions e.g. 25%, 50% and 75%
To be able to calculate negative numbers

Everyone to Excel through Pride and Ambition



Impact

Maths lessons are engaging and well-resourced with the pupils acknowledging that the journey to finding an answer is most important factor. Our children are resilient and they make measurable progress against the National Curriculum objectives.

Children are keen to attempt a range of problems and choose the equipment they need to help them to learn, along with the strategies they think are best suited to each scenario.

Children are developing skills in being articulate and are able to reason verbally, pictorially and in written form.

End of year and key stage attainment is above national (93%), with progress also above national (+2.1)

Well-planned sequences of learning support pupils to develop and refine their maths skills.

Children are able to independently apply their knowledge to a range of increasingly complex problems.

Everyone to Excel through Pride and Ambition

The Park Federation

Montem Academy

Everyone to Excel through Pride and Ambition