

Maths Non-Negotiables

End of Pre-School

- Recognise numbers to 5 and say them in order
- Understand the cardinal value of numbers to 5
- Understand 1:1 correspondence to 5
- Recognise numbers 1, 2 and 3 in different representations
- Understand positional language
- Explore common 2D shapes

End of Reception

- Subitise numbers to 5
- Automatically show a given number using fingers
- Understand the composition of numbers within 10
- Recognise numbers to 20 and say them in order
- Automatic recall of number bonds to 5
- Explore patterns of numbers within 10 including odds and evens, and double facts
- Form numbers 0-10 correctly
- Share items into equal groups
- Explore 2D and 3D shapes

End of Year 1

- Subitise to 10
- Know number bonds to 10
- Count in multiples of 2, 5 and 10
- Know number bonds to 20
- Recognise numbers to 100 and say them in order counting backwards and forwards
- Form numbers to 100 correctly
- Understand numbers are made up of tens and ones
- Recognise and name common 2D and 3D shapes

End of Year 2

- Understand the value of tens and ones (ie 40 can be 4 tens or 40 ones)
- Know how many tens there are in multiples of 10 to 100
- Recognise the place value of each digit within 2-digit numbers
- Compose and decompose two-digit numbers using standard and non-standard partitioning
- Add and subtract across 10
- Know number bonds to 20
- Solve problems using the 2, 5 and 10 times tables
- Recognise standard and non-standard examples of 2D shapes presented in different orientations.
- Know the value of UK coins and notes

End of Year 3

- Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10.
- Recognise the place value of each digit within 3 digit numbers
- Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10)
- Know 2, 5, 10, 3, 4 and 8 times tables
- Solve problems using the 2, 5, 10, 3, 4 and 8 times tables
- Multiply two-digit numbers by 10, and divide three-digit multiples of 10 by 10.
- Know number bonds to 100
- Understand column method for adding and subtracting 3-digit numbers
- Identify unit and non-unit fractions.
- Add and subtract fractions with the same denominator, within 1 whole
- Measure lines in centimetres and metres
- Tell the time to 5 minutes and use am and pm

End of Year 4

- Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100
- Understand place value of 4 digit numbers
- Understand column method for adding and subtracting 4 digit numbers
- Divide 100 and 1,000 into 2, 4, 5 and 10 equal parts
- Recall all multiplication and division facts up to 12 x 12
- Multiply and divide whole numbers by 10 and 100
- Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders
- Round any number to the nearest 10, 100 or 1000
- Find unit fractions of quantities using known division facts
- Recognise right angles as a property of shape or description of a turn
- Read, collect and represent statistical information on tables, bar charts and pictograms

End of Year 5

- Understand the relationship between powers of 10 from 1 hundredth to 1,000 in terms of grouping and exchange (for example, 1 is equal to 10 tenths) and in terms of scaling (for example, 1 is ten times the size of 1 tenth).
- Understand place value to 10,000
- Divide 1000, 100 and 1 into 2, 4, 5 and 10 equal parts
- Be secure in mental strategies for adding and subtracting
- Compose and decompose numbers to 10,000 using standard and non-standard partitioning
- Understand column method for adding and subtracting 5-digit numbers
- Secure understanding of the inverse relationship between addition and subtraction, and the commutative property of addition.
- Secure understanding of the inverse relationship between multiplication and division and the commutative property of multiplication
- Secure and rapid recall of all times tables
- Divide 1000, 100 and 1 into 2, 4, 5 and 10 equal parts
- Find factors and multiples of positive whole numbers, including common factors and common multiples
- Understand formal written methods of multiplication and short division
- Find equivalent fractions.
- Understanding of perimeter, area and length

DFE - Mathematics guidance: key stages 1 and 2

https://assets.publishing.service.gov.uk/media/6140b7008fa8f503ba3dc8d1/Maths_guidance_KS_1_and_2.pdf

