

These are what teachers call the non- negotiables in Maths. Please browse through your child’s year group to see what they must know by the end of the year. You can use this list to help support your child at home.

Non-negotiables are the minimum expectations that all pupils must attain by the end of year. The content identifies basics to ensure children make rapid progress and access learning in other areas, as well as securing success in terms of preparing children for the next stages in their learning.

Non-negotiables are in no way intended to cover the entirety of the curriculum – they are an on-going reminder of key objectives for the year group. They are the basics in order to embed and support meaningful learning.

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| **Year group** | **Number and Place Value** | **Tables and Multiples** | **Calculation +/-** | **Calculation x/ ÷** | **Frac/ Dec/ %** | **Measures** |
| N | To count by rote to 10  To count out a larger quantity from a group up to 6  To be able to subitise to at least 3. |  | To understand how to make numbers to 5.  Be able to say the number before and after a given number to 5 with the use of visual aids  To solve real world maths problems with numbers up to 5 e.g. there are 4 children and 3 chairs, how many more chairs do we need? |  |  |  |
| Rec | Count reliably to 20.  Order numbers 1 – 20  Say 1 more/1 less to 20 |  | Add & subtract two single digit numbers. Count on/back to find the answer.  Explore number bonds to 10 in a range of contexts using concrete materials.  Solve simple one step problems using concrete objects. |  |  | Talk about day and night and order key events in their daily routines. |
| 1 | Count to & across 100, forwards & backwards from any number  Read & write numbers to 20 in numerals & words. Read & write numbers to 100 in numerals  Say 1 more/1 less to 100 | Count in multiples of 1, 2, 5 & 10. | Use bonds & subtraction facts to 20  Add & subtract:  1 digit & 2 digit numbers to 20, including zero  Recognise and use the inverse relationship of addition and subtraction to solve problems  Solve one- step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing numbers such as  7 = - 9 | Solve one-step multiplication & division using objects, pictorial representations and arrays | Recognise half and quarter of object, shape or quantity | Sequence events in chronological order. Use language of day, week, month and year. Tell time to hour & half past |
| 2 | Compare & order numbers up to 100 and use < > =  Read & write all numbers to 100 in digits & words. Say 10 more/less than any number to 100  Recognise PV of any 2-digit number | Count in steps of 2, 3 & 5 from any number up to 100 and in 10s from any number (forward/backward).  Recall & use multiplication & division facts for 2, 5 & 10 tables | Recall & use +/- facts to 20.  Derive & use related facts to 100  Add & subtract:  2-digit nos & ones  2-digit nos & tens  Two 2-digit nos  Three 1-digit nos  Use the inverse operation to solve missing number problems and to check calculations | Calculate & write multiplication & division calculations using multiplication tables.  Use the inverse operation to solve missing number problems and to check calculations | Recognise, find, name & write 1/3; 1/4; 2/4; ¾  Recognise equivalence of simple fractions. | Tell time to five minutes, including quarter past/to. |
| 3 | Compare & order numbers up to 1,000.  Read & write all numbers to 1,000 in digits & words. Find 10 or 100 more/less than a given number  Recognise PV of any 3-digit number. | Count from 0 in multiples of 4, 8, 50 & 100. Recall & use multiplication & division facts for 3, 4, 8 tables. | Add & subtract:  3-digit nos & ones  3-digit nos & tens  3-digit nos & hundreds  Add & subtract: Numbers with up to 3- digits using written column method.  Estimate and use inverse to check | Multiply: 2-digit by 1-digit  Use the inverse operation to solve missing number problems with multiplication and division | Count up/down in tenths.  Compare & order fractions with same denominator. +/- fractions with same denominator within one whole. | Tell time using 12 and 24 hour clocks  Tell time to nearest minute.  Know number of days in each month and number of seconds in a minute. |
| 4 | Count backwards through zero to include negative numbers.  Compare & order numbers beyond 1,000  Recognise PV of any 4-digit number.  Round any number to the nearest 10, 100 or 1000.  Round decimals with 1dp to nearest whole number  Compare & order numbers with up to 2 decimal places.  Read Roman numerals to 100  Find 1000 more/ less than a given number | Count in multiples of 6, 7, 9, 25 & 1000.  Recall & use multiplication & division facts all tables to 12x12 | Add & subtract numbers with up to 4- digits using written column method.    Estimate and use the inverse operation to check.  Solve addition and subtraction two step problems in context | Multiply and divide:  2-digit by 1-digit  3-digit by 1-digit  Multiply and divide a two digit number by 10 or 100. | Count up/down in hundredths.  Recognise & write equivalent fractions  +/- fractions with same denominator. | Read, write & convert time between analogue & digital 12 & 24 hour clocks. |
| 5 | Count forwards & backward with positive & negative numbers through zero.  Count forwards/backwards in steps of powers of 10 for any given number up to 1,000,000  Read and write numbers to 1,000,000  Compare & order numbers up to 1,000,000  Compare & order numbers with 3 decimal places.  Recognise PV of any number up to 1,000,000  Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 or 100000.  Round decimals with 2dp to nearest whole number & 1dp.  Read Roman numerals to 1,000 | Identify all multiples & factors, including finding all factor pairs | Add & subtract numbers with more than 4-digits using formal written method.  Numbers with up to 2dp.  Use rounding to check answers  Solve multi step problems in context deciding which methods to use and why | Recall prime numbers up to 19.  Recognise & use square numbers & cube numbers  Multiply 4-digits by 1-digit/ 2-digit  Divide up to 4-digits by 1-digit  Multiply & divide: Whole numbers & decimals by 10, 100 & 1000  Solve multi step problems in context deciding which methods to use and why | Recognise & use thousandths.  Recognise mixed numbers & improper fractions & convert from one to another.  Multiply proper fractions & mixed numbers by whole numbers.  Identify and write equivalent fractions. | Solve time problems using timetables and converting between different units of time. |
| 6 | Use negative numbers in context & calculate intervals across zero.  Compare & order numbers up to 10,000,000.  Round any whole number to a required degree of accuracy.  Identify value of each digit to 3dp. | Identify common factors, common multiples & prime numbers. | Use knowledge of order of operations to carry out calculations involving 4 operations.  Use estimation to check answers  Add & subtract numbers with up to 3dp.  Solve multi step problems in context deciding which methods to use and why | Multiply 4-digit by 2-digit  Divide 4-digit by 2-digit  Solve multi step problems in context deciding which methods to use and why | Add & subtract fractions with different denominators & mixed numbers.  Multiply simple pairs of proper fractions, writing the answer in the simplest form.  Divide proper fractions by whole numbers.  Calculate % of whole number | Convert between different units of metric measure including time |