| Progression in Mathematical Skills | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Counting and Ordering | \*Count reliably to 20. | \*Count to and across 100, forwards and backwards from any numbers. |  |  | \*Count backwards through zero to include negative numbers. | \*Count forwards and backwards with positive and negative numbers through zero.  \*Count forwards / backwards in steps of powers of 10 for any given number up to 1,000,000. | \*Use negative numbers in context and calculate intervals across zero. |
| \*Order numbers from 1 to 20. |  | \*Compare and order numbers up to 100 and use >, < and =. | \*Compare and order numbers up to 1000. | \*Compare and order numbers beyond 1000.  \*Compare and order numbers with up to 2dps.  \*Read Roman Numerals to 100. | \*Compare and order numbers up to 1,000,000.  \*Compare and order numbers with 3dps.  \*Read Roman Numerals to 1000. | \*Compare and order numbers up to 10,000,000. |
| Numbers and More/Less | \*Say 1 more / 1 less to 20. | \*Read and write numbers to 20 in words and numerals.  \*Read and write numbers to 100 in numerals.  \*Say 1 more / 1 less to 100. | \*Read and write all numbers to 100 in digits and words.  \*Say 10 more / 10 less than any number to 100. | \*Read and write all numbers to 1000 in digits and words.  \*Find 10 or 100 more / less than any given number. | \*Find 1000 more / less than any given number. |  |  |
| Tables and Multiples |  | \*Count in multiples of 1, 2, 5 and 10. | \*Count in steps of 2, 3 and 5 from any given number up to 100 and in 10s from any number (forwards / backwards).  \*Recall and use multiplication / division facts for 2s, 5s and 10s. | \*Count from 0 in multiples of 4, 8, 50 and 100.  \*Recall and use multiplication / division facts for 3s, 4s and 8s. | \*Count in multiples of 6, 7, 9, 25 and 1000.  \*Recall and use multiplication / division facts for all tables up to 12s. | \*Identify all multiples and factors, including finding all factor pairs. | \*Identify common factors, common multiples and prime numbers. |
| Bonds and Facts |  | \*Use bonds and subtraction facts to 20. | \*Recall and use +/- facts to 20.  \*Derive and use related facts to 100. |  |  | \*Recall prime numbers up to 19.  \*Recognise and use square numbers and cube numbers. |  |
| Place Value and Rounding |  |  | \*Recognise the PV of any 2 digit number. | \*Recognise the PV of any 3 digit number. | \*Recognise the PV of any 4 digit number.  \*Round any number to the nearest 10, 100 or 1000.  \*Round decimals with 1dp to nearest whole number. | \*Recognise the PV of any number up to 1,000,000.  \*Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000.  \*Round decimals with 2dps to nearest whole number and to 1dp. | \*Round any whole number to a required degree of accuracy.  \*Identify the value of each digit to 3dps. |
| Calculations +/- | \*Add and subtract two single-digit numbers.  \*Count on/back to find the answer. | Add and subtract:  \*1-digit and 2-digit numbers to 20, including zero. | Add and subtract:  \*2-digit numbers and ones.  \*2-digit numbers and tens.  \*Two 2-digit numbers.  \*Three 1-digit numbers. | Add and subtract:  \*3-digit numbers and ones.  \*3-digit numbers and tens.  \*3-digit numbers and hundreds.  \*Numbers with up to 3 digits, using written columnar method.    \*Estimate and use the inverse to check. | Add and subtract:  \*Numbers with up to 4 digits using written columnar method.  \*Numbers with up to 1dp.    \*Estimate and use the inverse to check. | Add and subtract:  \*Numbers with more than 4 digits using formal written method.  \*Numbers with up to 2dps.    \*Use rounding to check answers. | \*Use knowledge of order of operations (BIDMAS) to carry out calculations involving 4 operations.    \*Use estimation to check answers. |
| Calculations x/÷ |  | \*Solve one-step multiplication and division using objects, pictorial representations and arrays, | \*Calculate and write multiplication and division calculations using multiplication tables.  \*Write and recognise and use the inverse. | Multiply:  \*2-digit by 1-digit. | Multiply:  \*2-digit by 1-digit.  \*3-digit by 1-digit. | Multiply:  \*4-digit by 1-digit.    Divide:  \*Up to 4-digits by 1-digit.    Multiply and Divide:  \*Whole numbers and decimals by 10, 100 and 1000. | Multiply and Divide:  \*4-digit by 2-digit. |
| Fractions and Percentages |  | \*Recognise half and quarter of object, shape or quantity. | \*Recognise, find, name and write: 1/3, ¼, 2/4, ¾.  \*Recognise equivalent of simple fractions. | \*Count up/down in tenths.  \*Compare and order fractions with same denominator.  \*Add and subtract fractions with same denominator (within one whole). | \*Count up/down in hundredths.  \*Recognise and write equivalent fractions.  \*Add and subtract fractions with same denominator. | \*Recognise and use thousandths.  \*Recognise mixed numbers and improper fractions and convert from one to the other.  \*Multiply proper fractions and mixed numbers by whole numbers.  \*Identify and write equivalent fractions. | \*Add and subtract fractions with different denominators and mixed numbers.  \*Multiply simple pairs of proper fractions, writing the answer in its simplest form.  \*Divide proper fractions by whole numbers.  \*Calculate % of whole numbers. |
| Time |  | \*Sequence events in chronological order.  \*Use language of day, week, month and year.  \*Tell the time to hour and half past. | \*Tell the time to 5 minutes, including quarter past and quarter to. | \*Tell the time using 12 and 24 hour clocks; using Roman Numerals.  \*Tell the time to the nearest minute.  \*Know the number of days in each month and the number of seconds in a minute. | \*Read, write and convert time between analogue and digital 12 and 24 hour clocks. | \*Solve time problems using timetables and converting between different units of time. |  |