

This is designed to be a fluid document which can be adapted to suit the child accordingly.


| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| add, more, sum, make, total, How much more is...? one more, altogether | addition, add, more, and, makes, sum, total, altogether, count on, one more, two more...ten more...., how many more to make? How many more is...than...? How much more is...? | addition, add, more, and, makes, sum, total, altogether, double, count on, one more, two more...ten more...., one hundred more, how many more to make? How many more is...than...? How much more is...? | addition, columnar addition. add, more, and, makes, sum, total (of), addend, count on, altogether, increased by, double, near double, one more, two more...ten more...., one hundred more, inverse, commutative law, how many more to make? How many more is...than...? How much more is...? | addition, <br> columnar addition. add, more, and, makes, sum, addend, total (of), count on, altogether, extra, in all, combined, increased by, double, near double, one more, two more...ten more...., inverse, commutative law, one hundred more, how many more to make? How many more is...than...? How much more is...? | addition, <br> columnar addition. add, more, and, makes, sum, addend, total (of), count on, altogether, extra, in all, combined, increased by, double, near double, one more, two more...ten more...., one hundred more, inverse, commutative law, how many more to make? How many more is...than...? How much more is...? | addition, <br> columnar addition. add, more, and, makes, sum, addend, total (of), count on, altogether, extra, in all, combined, increased by, double, near double, one more, two more...ten more...., one hundred more, inverse, commutative law, how many more to make? How many more is...than...? How much more is...? |


| Subtraction | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Written <br> Method | Read, write and interpret mathematical statements involving subtraction (-) and equals (=) signs <br> To represent and use number bonds and related subtraction facts within 20. | To recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100 . <br> To show that subtraction of two numbers can not be done in any order. <br> To recognise and use the inverse relationship between addition and subtraction and to use this to solve missing number problems. | To subtract numbers with up to three digits, using formal written methods of columnar subtraction. <br> To estimate the answer to a calculation and use inverse operations to check answers. | To subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate. <br> To estimate and use inverse operations to check answers. | To subtract whole numbers with more than 4 digits, including using formal written methods (columnar subtraction). <br> To use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. | To perform mental calculations, including with mixed operations and large numbers. <br> To use their knowledge of the order of operations to carry out calculations involving the four operations. |
| Concrete, pictorial and abstract <br> (Examples, this is not designed to be an exhaustive list nor are teachers limited to only use examples from their year group. We trust our teachers as professionals to use their judgement.) |  | Number track 7 Number une - jumps of 9 then efficient jumps using number bonds $23-5=18$ $0000000000000000-0000$ Using a number line, $73-46=26$ <br>  Difference between $73-58$ by counting up, $58+=73$ up, 58 + ${ }^{-73} \underbrace{43}_{\text {sis }}$ Taking away and exchanging. 73 - 46 | Huntrads Tens Ones <br> $\varnothing \varnothing \varnothing$ 000 $\varnothing 0 \varnothing \varnothing$ <br>  $000 \phi \varnothing$  <br>  $\varnothing \varnothing \varnothing \varnothing \varnothing$  |   |  | 294,382  <br> 182,501 $?$ 2 9 $3 / L$ $1_{3}$ 8 2 <br> - 1 8 2 5 0 1 <br>  1 1 1 8 8 1 |
| With jottings or in your head Abstract/ mental | To subtract one-digit and two-digit numbers to 20 including 0 . <br> To solve one-step problems that involve subtraction using concrete objects and pictorial representations, and missing number problems such as $7=?-9$ | To subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> * a two-digit number and ones <br> * a two-digit number and tens <br> * two two-digit numbers <br> To solve problems with subtraction using concrete objects and pictorial representations. | To subtract numbers mentally, including: <br> * a three-digit number and ones <br> *a three-digit number and tens <br> * a three-digit number and hundreds <br> To solve problems including missing number problems, using number facts, place value, and more complex subtraction. | To solve two-step subtraction problems in contexts, deciding which operations and methods to use and why. | To subtract numbers mentally with increasingly large numbers. <br> To solve multi-step problems involving subtraction in contexts, deciding which operations and methods to use and why including understanding the meaning of the equals sign. | To solve multi-step subtraction problems in contexts, deciding which operations and methods to use and why. |
| Foundations of mathematics | - 1 less <br> - Count back Number bonds, <br> - Subtract 10 . <br> - Teens subtract 10 . <br> - Difference between | - Number bonds, subtraction (to 108 within 10) <br> - Subtract 1 digit from 2 digit by bridging <br> - Partition numbers and subtract <br> - count back in 10 s then 1 s <br> - Subtract 10 and multiples of 10 ; <br> - Difference between | - Subtract multiples of 10 and 100 <br> - Subtract single digit by bridging through boundaries <br> - Partition second number to subtract <br> - Difference between <br> - Subtract near multiples of 10 and 100 by rounding and adjusting | - Subtract multiples of $10 \mathrm{~s}, 100 \mathrm{~s}$, 1000s <br> - Fluency of 2 digit subtract 2 digit <br> - Partition second number to <br> - subtract <br> - Decimal subtraction from 10 or 1 <br> - Difference between <br> - Subtract near multiples by rounding and adjusting | - Subtract multiples of $10 \mathrm{~s}, 100 \mathrm{~s}$, 1000s, tenths, <br> - Fluency of 2 digit - 2 digit including with decimals <br> - Partition second number to subtract <br> - Difference between <br> - Adjust numbers to subtract | - Subtract multiples of $10 \mathrm{~s}, 100 \mathrm{~s}$, 1000s, tenths, hundredths <br> - Fluency of 2 digit - 2 digit including with decimals <br> - Partition second number to subtract <br> - Use number facts bridging and place value <br> - Adjust numbers to subtract <br> - Difference between |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| take away, difference between, how many are left/ left over? How many are gone?, one less, two less, ten less. How many fewer is...than...? How much less is...? minuend, subtrahend, difference | subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less. How many fewer is...than...? How much less is...? minuend, subtrahend, difference. | subtract, take away, difference between, how many are left/ left over? How many are gone? one less, two less, ten less, hundred less. How many fewer is...than...? How much less is...? tens boundary, minuend, subtrahend, difference. | subtract, take away, difference between, how many are left/ left over? How many are gone?, one less, two less, ten less, hundred less. How many fewer is...than...? How much less is...? tens boundary, hundreds boundary, minuend, subtrahend, difference. | subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less, hundred less. How many fewer is...than...? How much less is...? tens boundary, hundreds boundary, inverse, minuend, subtrahend, difference. | subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less, hundred less. How many fewer is...than...? How much less is...? tens boundary, hundreds boundary, one boundary, tenths boundary, inverse, minuend, subtrahend, difference. | subtract, take away, difference between, how many are left/ left over? How many are gone?, one less, two less, ten less, hundred less. How many fewer is...than...? How much less is...? tens boundary, hundreds boundary, one boundary, tenths boundary, inverse, minuend, subtrahend, difference |



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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| multiplication, multiply, multiplied by, multiple, grouping, doubling, array, times. | multiplication, multiply, multiplied by multiple, grouping, doubling, array, times | multiplication, multiply, multiplied by, multiple, times, grouping, doubling, array, row, column, groups of, times once, twice, three times ... ten times, repeated addition, one each, two each, three each ... ten each, equal groups of, multiplication table, multiplication fact. | multiplication, multiply, multiplied by, multiple, factor, product, grouping, doubling, array, row, column, groups of, twice, three times ... ten times, repeated addition, one each, two each, three each ... ten each, equal groups of, multiplication table, multiplication fact, multiplicand, multiplier. | multiplication, multiply, multiplied by, multiple, factor, product, grouping, doubling, array, row, column, groups of, times once, twice, three times ... ten times, repeated addition, one each, two each, three each...ten each, equal groups of, multiplication table, multiplication fact, inverse, square, squared, cube, cubed, distributive law, multiplicand, multiplier. | multiplication, multiply, multiplied by, multiple, factor, product, grouping, doubling, array, row, column, groups of, times once, twice, three times ... ten times, repeated addition, one each, two each, three each ... ten each, equal groups of, multiplication table, multiplication fact, inverse, square, squared, cube, cubed, distributive law, multiplicand, multiplier. | multiplication, multiply, multiplied by, multiple, factor, product, grouping, doubling, array, row, column, groups of, times once, twice, three times ... ten times, repeated addition, one each, two each, three each ... ten each, equal groups of, multiplication table, multiplication fact, inverse, square, squared, cube, cubed, multiplicand, multiplier. |



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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| sharing, halving, number patterns | division, dividing, grouping, sharing, doubling, halving, array, number pattern, equal grouping, equal sharing | groups of, times, repeated subtraction, division, dividing, divide, divided by, divided into left, left over, grouping, sharing, share, share, equally, two each, three each ... ten each group in pairs, threes ... tens equal groups of, halving, array row, column, number patterns, division fact | groups of, times, repeated subtraction, division, dividing, divide, divided by, divided into left, left over, remainder grouping sharing, share, share equally one each, two each, three each ... ten each group in pairs, threes ... tens equal groups of, halving, array row, column, number patterns, division fact, dividend, divisor, quotient | factors, multiples, groups of, share, share equally, equal groups, division, divide, divided by, divided into, left, left over, remainder, array, dividend, divisor, quotient. | factors, multiples, groups of, share, share equally, equal groups, division, divide, divided by, divided into, left, left over, remainder, array, prime numbers, composite numbers, dividend, divisor, quotient. | factors, multiples, groups of, share, share equally, equal groups, division, divide, divided by, divided into, left, left over, remainder, array, dividend, divisor, quotient, prime numbers. |

