| AUTUMN | | | | | |
|---|--|--|--|--|--|
| Year 1 | | | | | |
| Place Value | Addition & Subtraction | Geometry – Shape | Place Value (to 20) | | |
| Count to and beyond 100 forwards and backwards Identify and represent numbers using objects and pictorial reps Identify one more and one less | Read & write maths statements involving '+', '-' and '=' Represent and use number bonds within 20 | Recognise and name common 2D shapes Recognise and name common 3D shapes | - Count in multiples of 2s, 5s and 10s | | |
| | Resources | Activities | | | |
| - Counting songs | - Dice addition | - Playdough/cookie cutters | - Grouping | | |
| - Dice games | - Grouping and counting | - Lollipop stick shapes | - Multilink cubes | | |
| - Number Bingo | - Numicon | Using 2D shapes to form pictures (houses, rockets etc) | - Number peg lines | | |
| Card Games (Snap, number pairs) Physical resources: Rubber vehicles, sounters, Numicon | | - Pin boards and elastics | - Counting songs | | |
| Year 2 | | | | | |
| Place Value | Addition & Subtraction | Measurement – Money | Number – Multiplication and Division | | |
| - Count in 2s, 3s, 5s from 0 and in 10s from any number (forward and backwards) | Recall addition and subtraction facts to 20 *related facts to 100 | - Recognise and use symbols for pounds and pence, combine to make a particular value | - Recall and use multiplication and division facts for 2, 5 and 10 | | |

| | | | | | multiplication tables, and recognise odd | |
|---|----------------------|-----------------------------|-------------------------------|----------------|---|--|
| - Read and write numbers to 100 in | - Show that a | ddition can be | - Find different combination | ns of coins | and even numbers | |
| numerals and words | commutative | and subtraction cannot | that make the same amoun | its | | |
| | | | | | - Show that multiplication of two | |
| - Identify, represent and estimate | - Recognise a | ind use the inverse | - Solve simple problems in p | oractical | numbers can be done in any order | |
| numbers using different representations | relationship l | between addition & | context, involving addition | and | (commutative) and that division can not | |
| | subtraction t | o solve missing number | subtraction, including giving | g change | | |
| | problems and | d check calculations | | | - Calculate mathematical statements for | |
| | | | | | multiplication and division within the | |
| | - Add and sul | otract numbers using | | | multiplication tables and write them | |
| | concrete obj | ects, pictorial | | | using the multiplication, division and | |
| | representatio | ons and mentally | | | equals signs | |
| | | | | | | |
| | - Solve additi | on and subtraction | | | - Solve problems involving multiplication | |
| | problems | | | | and division, using materials, arrays, | |
| | | | | | repeated addition, mental methods and | |
| | | - | | | nulliplication/division facts – including | |
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| | Resources/Activities | | | | | |
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| Year 3 | | | | | | |
| Number: Place Valu | е | Number: Additio | on & Subtraction | Numbe | r: Multiplication & Division | |
| - Count from 0 in multiples of 4, 8, 50 and | 100 | - Estimate answers to calcu | lations and use inverse | - Recall and u | se multiplication and division facts for 3, | |
| | | operations to check answer | rs | 4 and 8 multi | plication tables | |
| - Count backwards through 0, to include r | negatives | | | | | |
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| Add and subtract number three digit number and 1s, and - Add and subtract number written methods of column a 3 digit - Solve problems including value, number facts, and columns | rs mentally, including a /10s/100s rs with 3 digits using formal nar addition/subtraction missing number, place omplex addition/subtraction | d calculate mathematical statements for ion and division using the multiplication they know, including for two digit times umbers using mental and progressing to tten methods | | | |
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| Resources | s/Activities | | | | |
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| Year 4 | | | | | |
| Number: Addition & Subtraction | Measurement: Length & Perimeter | Number: Multiplication & Division | | | |
| multiples of 6, 7, 9, 25 and Estimate and use inverse operations to check calculations Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction | | Recall multiplication and division facts for multiplication tables to 12x12 Use place value, known and derived facts to multiply and divide mentally | | | |
| | - Add and subtract numbe three digit number and 1s, erals and - Add and subtract numbe written methods of colum - Solve problems including value, number facts, and composition of the second columns Resources Ye Number: Addition & Subtraction - Estimate and use inverse operations to check calculations - Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction | - Add and subtract numbers mentally, including a three digit number and 1s/10s/100s - Add and subtract numbers with 3 digits using formal written methods of columnar addition/subtraction - Add and subtract numbers with 3 digits using formal written methods of columnar addition/subtraction - Solve problems including missing number, place value, number facts, and complex addition/subtraction - Solve problems including missing number, place value, number facts, and complex addition/subtraction Year 4 Number: Addition & Measurement: Length & Perimeter - Stimate and use inverse operations to check calculations - Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction | | | |

| - Identify, represent and estimate | - Solve addition and subtraction two | - Measure and calculate the perimeter | - Recognise and use factor pairs and | | | |
|--|--------------------------------------|--|--------------------------------------|--|--|--|
| numbers using different representations | step problems in context, deciding | of a rectilinear shape in centimetres and | commutativity in mental calculations | | | |
| | which operations and methods to use | metres | | | | |
| Read Roman Numerals to 100 (I to C), | and why | | | | | |
| and know that over time, the numeral | | Find the area of rectilinear shapes by | | | | |
| system changed to include the concept | | counting squares | | | | |
| of zero and place value | | | | | | |
| - Find 1000 less or more than a given | | | | | | |
| number | | | | | | |
| | | | | | | |
| - Recognise the place value of each digit | | | | | | |
| in a 4 digit number | | | | | | |
| | | | | | | |
| - Order and compare numbers beyond | | | | | | |
| 1000 | | | | | | |
| - Round any number to the nearest 10 | | | | | | |
| 100 or 1000 | | | | | | |
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| - Solve number and practical problems | | | | | | |
| that involve all of the above and with | | | | | | |
| increasingly large positive numbers | | | | | | |
| Resources/Activities | | | | | | |
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| Year 5 | | | | | | |

| Number: Place Value | Number: Addition & | Statistics | Number: | Measurement: |
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| | Subtraction | | Multiplication & | Perimeter and Area |
| | | | Division | |
| Count forwards or backwards in steps of powers of 10 for any given number to 1,000,000, Count forwards and backwards with positive and negative whole numbers, including through zero Read, write, order and compare numbers to 1,000,000, and determine the value of each digit Read Roman numerals to 1000 and recognise years written in Roman numerals Interpret negative numbers in context Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 Solve number and practical problems that involve all of the above | Use rounding to check answers to calculations, and determine, in the context of a problem, levels of accuracy Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract increasingly large numbers mentally Solve addition and subtraction multi step problems in contexts, deciding which operations to use and why Solve problems involving addition, subtraction, multiplication and division, and a combination of these, including understanding of the equals sign | Complete, read and interpret information in tables, including timetables Solve comparison, sum and difference problems using information presented in a line graph | Division Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers to 19 Recognise and use square numbers and cube numbers, and the notation for these Multiply numbers up to 4 digits by 1 or 2 digit numbers using formal written method including long multiplication for 2 digit numbers Multiply and divide numbers mentally using known number facts Divide numbers up to 4 digits by a 1 digit number using the | Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres and square metres, and estimate the area of irregular shapes Estimate volume (for example, using 1cm cubed blocks to build cuboids) and capacity (for example, using water) |
| | | | formal written method of short division and interpret remainders | |
| | | | | |

| - Read, write, order and compare | - Perform mental calculation including | - Use common factors to simplify | - Describe positions on the full |
|---------------------------------------|--|---|--|
| numbers to 10,000,000 and determine | with mixed operations and with large | fractions, use common multiples to | coordinate grid (all 4 quadrants |
| the value of each digit | numbers | express fractions in the same | |
| | | denomination | - Draw and translate simple shapes on |
| - Round any whole number to a | - Use their knowledge of the order of | | the coordinate plane, and reflect them |
| required degree of accuracy | operations to carry out calculations | - Compare and order fractions including | in the axes |
| | involving all four | fractions > 1 | |
| - Use negative numbers in context and | | | |
| calculate intervals across zero | - Solve addition and subtraction multi | - Add and subtract fractions with | |
| | step problems in contexts, deciding | different denominators and mixed | |
| - Solve number and practical problems | which operations to use and why | numbers using the concept of | |
| that involve all of the above | | equivalent fractions | |
| | - Identify common factors, common | | |
| | multiples and prime numbers | - Multiply simple pairs of proper | |
| | | fractions, writing the answer in it's | |
| | - Use estimation to check answers to | simplest form | |
| | calculations and determine, in the | | |
| | context of a problem, an appropriate | - Divide proper fractions by whole | |
| | degree of accuracy. | numbers | |
| | Multiply up to 4 digit pupplers by a 2 | | |
| | - Multiply up to 4 digit numbers by a 2 | | |
| | mothed of long multiplication | | |
| | | | |
| | - Divide numbers up to 4 digits by a 2 | | |
| | digit number using the formal written | | |
| | method of long division and interpret | | |
| | remainders as whole number | | |
| | remainders fractions or by rounding | | |
| | | | |
| | - Divide numbers up to 4 digits by 2 digit | | |
| | numbers using the formal written | | |
| | method of short division, interpreting | | |
| | remainders according to the context | | |
| | | | |
| | - Perform mental calculations including | | |
| | mixed operations and large numbers | | |
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| - Solve problems including all four operations | | |
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| Use knowledge of the order of operations to carry out calculations | | |
| Resources | /Activities | |
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