

Nursery

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| <p>More than, less than, same</p> <ul style="list-style-type: none"> - collect objects to compare amounts - make simple comparisons about amounts - look for collections of large and small amounts - compare and talk about large and small amounts - make large and small collections - make collections the same <p>Explore and build with shape and objects</p> <ul style="list-style-type: none"> - Explore and play with shapes - simple differences between shapes - put shapes and blocks into position - select shapes for a reason - begin to explore and describe natural shapes and objects | <p>Begin to order number names</p> <ul style="list-style-type: none"> - model saying 1, 2, 3 in play - copy the sequence of 1, 2, 3 - copy fingers to represent 1, 2, 3 - Begin to count actions - say number names in order - begin to recognise than anything can be counted. <p>Subitising 1, 2, 3</p> <ul style="list-style-type: none"> - notice images in books - respond to 'I see 1,2,3' - Recognise 'I see 1,2,3' - Copy 'I see 1,2,3' - Point to 1,2,3 - Recognise 1,2,3 in well-known tales | <p>Show me 1,2,3</p> <ul style="list-style-type: none"> - copy fingers to show 1 - Copy fingers to show 2 - copy fingers to show 3. - show 1 finger when seeing 1 item in stories - show 2 or 3 fingers when seeing 2 or 3 - show 1,2,3 on fingers when asked. <p>Move and label 1,2,3</p> <ul style="list-style-type: none"> - make actions when counting words - move fingers when saying counting words - count out up to 3 objects from rhymes - notice number symbols as labels (numerals) - label amounts as 1 and not 1 - label amounts as 1,2 or 3 <p>Explore position and routes</p> | <p>Take and give 1,2,3</p> <ul style="list-style-type: none"> - Choose a group to count - take out 2 from a group - take out 3 from a group - give others 2 items - give others 3 items - count 3 objects with 1-1 correspondence <p>Match, talk, push and pull</p> <ul style="list-style-type: none"> - Make simple shapes - push some simple shapes and blocks together - make simple arrangements - talk about arrangements - follow simple routes outside - follow toys around a simple route <p>Subitising (dots)</p> | <p>Lead on own repeated patterns</p> <ul style="list-style-type: none"> - Join in fully with sequences and songs - sing rhymes independently - lead sequences and songs - read on in familiar repeating stories - copy art based simple patterns - explore own line and repeated patterns <p>Starting to puzzle</p> <ul style="list-style-type: none"> - complete shape matching puzzles - complete simple jigsaws - match objects to pictures - match objects to shadows - explore objects and small world from different positions | <p>Show me 5</p> <ul style="list-style-type: none"> - sing rhymes to 5 and join in with movements - move props to 5 - move props back from 5 - show fingers to 5 - begin to count 5 objects with 1-1 correspondence - match numerals to quantities when acting out songs <p>My own pattern</p> <ul style="list-style-type: none"> - continue AB patterns - create their own AB patterns - notice an error in a pattern - build constructions with simple enclosures - copy simple repeated constructions - begin to sequence some events <p>Stop at 1,2,3,4,5</p> |

Maths Small Steps

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| <p>Find and collect objects for a purples.</p> <p>Explore repeats</p> <ul style="list-style-type: none"> - listen to repeats in songs and stories - start to join in songs with repeats - start to join in with repeats from stories - clap along to songs - make line patterns with own sequences - choose blocks to build roads and towers. <p>Hear and say number names.</p> <ul style="list-style-type: none"> - hear some number names - join in saying number names - model saying number names in order - practise saying number names in order - join in stable order counting forwards - join in stable order counting backwards | <p>Join in with repeats</p> <ul style="list-style-type: none"> - join in with repeated actions in songs - join in with repeats in songs and stories - sing some refrains independently - have a sense of daily routines - say what happens next - make arrangements in art. <p>Explore position and space</p> <ul style="list-style-type: none"> - respond to simple language of position - arrange blocks in a chosen position - select shapes for a space - recognise when 2 objects are the same shape - explore and describe shapes and objects - sort shapes and objects into simple categories. | <ul style="list-style-type: none"> - explore shape resources - explore more complex inset jigsaws - talk about simple positions - move into simple positions - move through positions - follow simple small world routings <p>Explore own first patterns</p> <ul style="list-style-type: none"> - explore simple pattern arrangements - make roads and patterns with intent - choose blocks to copy simple creations - make simple line patterns with objects - make simple pattern arrangements - show an interest in patterns and shapes | <ul style="list-style-type: none"> - Become familiar with dot patterns - say when there is 1 dot - say when there are 2 dots - recognise 1 and 2 in different groups - say when there are 3 dots - recognise 1,2,3 in different arrangements <p>Compare and sort collections</p> <ul style="list-style-type: none"> - notice when 2 collections are the same - make collections of small objects the same - make collections of large objects the same - recognise 2 collections are the same using large and small objects - make collections the same using large and small objects - sort and talk about their own collections | <ul style="list-style-type: none"> - make simple routes in small world with lines and curves <p>Make patterns together</p> <ul style="list-style-type: none"> - sing their own songs independently - clap in time to a beat - make and talk about movement patterns - talk about objects in patterns and arrangements - copy AB patterns with support - continue AB patterns with support <p>Make games and actions</p> <ul style="list-style-type: none"> - Match dot patterns - be introduced to subitising games - play subitising games - copy sets of sounds - listen to and repeat sounds with fingers - listen to and repeat sounds with resources | <ul style="list-style-type: none"> - count upto 5 objects from a larger group - explore counting to 5 in different ways - verbally count to a given number - label objects with numerals - independently show fingers to 5 - Begin to make marks to represent quantities <p>Match, sort, compare</p> <ul style="list-style-type: none"> - compare up to 5 objects - compare by matching - make the same set by matching - match by type - recognise attributes of objects - begin to sort some objects by type |
| Comparison | Shape, Space and Measure | Pattern | Counting | Subitising | |

Reception

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Baseline weeks 1 - 3 sing counting songs and subitising to 3 Match sort and compare - match objects - match picture and objects - identify a set - sort objects to a type - explore sorting techniques - create sorting rules - compare amounts Talk about measures and pattern - compare size - compare mass - compare capacity - explore simple AB patterns - Copy and continue simple AB patterns - create simple AB patterns. | It's me 1,2,3 - find 1,2,3 - subitise 1,2,3 - represent 1,2,3 - 1 more - 1 less - composition of 1,2,3 Circles and triangles - identify and name circles and triangles - compare circles and triangles - shapes in the environment - describe position 1,2,3,4,5, - find 4 and 5 - subitise 4 and 5 - represent 4 and 5 - 1 more - 1 less - composition of 4 and 5 - composition of 1-5 Shapes with 4 sides | Alive in 5 - introduce 0 - find 0-5 - subitise 0-5 - represent 0-5 - 1 more - 1 less - composition - conceptual subitising to 5 Mass and capacity - compare mass - find a balance - explore capacity - compare capacity Growing 6,7,8 - find 6,7,8 - represent 6,7,8 - 1 more - 1 less - composition of 6,7,8 - make pairs – odd and even - find doubles to 8 - make doubles to 8 - combine 2 groups - conceptual subitising | Length, height and time - Explore length - compare length - explore height - compare height - talk about time - order and sequence time Building 9 and 10 - fine 9 and 10 - compare numbers to 10 - represent 9 and 10 - conceptual subitising to 10 - 1 more - 1 less - composition to 10 - Bonds to 10 (2 parts) - make arrangements of 10 - bonds to 10 (3 parts) - find doubles to 10 - make doubles to 10 - Explore odd and even | To 20 and beyond - Build numbers 10-13 - continue patterns 10-13 - build numbers 14-20 - continue patterns 14-20 - verbally count beyond 20 - verbal counting patterns How many now? - add more - how many did I add? - take away - how many did I take away Manipulate, compose and decompose - select shapes for a purpose - rotate shapes - manipulate shapes - explain shape arrangements - compose shapes | Sharing and grouping - explore sharing - sharing - explore grouping - grouping - even and odd sharing - play with and build doubles Visualise, build and map - identify units of repeating patterns - create own repeating patterns - explore own repeating patterns - replicate and build scenes and constructions - visualise from different positions - describe positions - give instructions to build - explore mapping - represent maps with models |

Maths Small Steps

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| | <ul style="list-style-type: none"> - identify and name shapes with 4 sides - combine shapes with 4 sides - shapes in the environment - my day and night | | <p>Exploring 3D shapes</p> <ul style="list-style-type: none"> - recognise and name 3D shapes - Find 2D shapes within 3D shapes - use 3D shapes for tasks - identify more complex patterns - copy and continue patterns - patterns in the environments | <ul style="list-style-type: none"> - decompose shapes -copy 2D shape pictures - Find 2D shapes within 3D pictures | <ul style="list-style-type: none"> - create own maps from familiar places - create own maps and plans from story situations <p>Make connections</p> <ul style="list-style-type: none"> - deepen understanding - patterns and relationships |
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Shape, space and measure

number/PV

Comparison

multiplication and division

Addition and subtraction

Year 1

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|--|---|---|--|--|
| Place Value within 10 <ul style="list-style-type: none"> - sort objects - count objects - Count objects from a larger group - represent objects - recognise numbers as words - count on from any number - 1 more - count backwards within 10 - 1 less - compare groups by matching - fewer, more, same - compare numbers - order objects and numbers - the number line Shape <ul style="list-style-type: none"> - recognise and name 3D shapes - sort 3D shapes - Recognise and name 2D shapes (faces on a 3D) - sort 2D shapes | Addition and Subtraction within 10 <ul style="list-style-type: none"> - introduce part whole - part-whole models - write number sentences - fact families (+) - number bonds within 10 - systematic number bonds within 10 - number bonds to 10 - add together - add more - addition problems - find a part - subtraction – find a part - fact families (the 8 facts) - take away/cross out (how many left) - take away (how many left) - subtraction on a number line - add/subtract 1 or 2 | Place value within 20 <ul style="list-style-type: none"> - count within 20 - understand 10 - understand 11, 12, 13 - understand 14, 15, 16 - understand 17, 18, 19 - understand 20 - 1 more - 1 less - the number line to 20 - use a number line to 20 - estimate on a number line to 20 - compare numbers to 20 - order numbers to 20 Addition and subtraction within 20 <ul style="list-style-type: none"> - add by counting on within 20 - add ones using number bonds - find and make number bonds to 20 - doubles - near doubles | Place value within 50 <ul style="list-style-type: none"> - count 20 to 50 - 20, 30, 40 and 50 - count by making groups of 10 - groups of 10s and 1's - partition into 10's and 1's - number lines to 50 - estimate on a number line to 50 - 1 more, 1 less Length and height <ul style="list-style-type: none"> - compare length and height - measure length using objects - measure length using centimetres Mass and volume <ul style="list-style-type: none"> - heavier and lighter - measure mass - compare mass - full and empty - compare volume - measure capacity - compare capacity | Multiplication and division <ul style="list-style-type: none"> - count in 2's - count in 10's - count in 5's - recognise equal groups - add equal groups - make arrays - make doubles - make equal groups – grouping - make equal groups - sharing Fractions <ul style="list-style-type: none"> - recognise half an object/shape - find half an object/shape - recognise half a quantity - recognise quarter of an object/shape - find quarter of an object/shape - recognise quarter of a quantity - find quarter of a quantity | Place value within 100 <ul style="list-style-type: none"> - count from 50 to 100 - tens to 100 - partition into 10s and 1s - the number line to 100 - 1 more, 1 less - compare numbers with the same numbers of tens - compare any 2 numbers Money <ul style="list-style-type: none"> - unitising - recognise coins - recognise notes - count in coins Time <ul style="list-style-type: none"> - before and after - days of the week - months of the year - hours, minutes, seconds - tell time to the hour - tell time to the half hour |

Maths Small Steps

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| - pattern with 2d and 3D shapes | | <ul style="list-style-type: none"> - subtract ones using number bonds - counting back - find the difference - related facts - missing number problems | | Position and direction <ul style="list-style-type: none"> - describe turns - describe (left and right) - describe (forwards and backwards) - describe (above and below) - ordinal numbers | |
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Shape, space and measure

number/PV

multiplication and division

Addition and subtraction

Fractions

Year 2

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Place value <ul style="list-style-type: none"> - Numbers to 20 - Count objects to 100 by making 10s - recognise tens and ones - use a place value chart - partition numbers to 100 - write numbers to 100 in words - flexibly partition numbers to 100 - write numbers to 100 in expanded form - 10's to 100 on a number line - tens and ones on the number line - estimate numbers on a number line - compare objects - compare numbers - order objects and numbers - count in 2's, 5's and 10's - count in 3's Addition and subtraction (not cross ten) | shape <ul style="list-style-type: none"> - Recognise 2D and 3D shapes - count sides on 2D shapes - count vertices on 2D shapes - draw 2D shapes - lines of symmetry on shapes - use lines of symmetry to complete 2D shapes - sort 2D shapes - count faces on 3D shapes - count edges on 3D shapes - count vertices on 3D shapes - sort 3D shapes - make patterns with 2D and 3D shapes Time <ul style="list-style-type: none"> - o'clock and half past - quarter past and quarter to | Addition and subtraction (cross ten) <ul style="list-style-type: none"> - add across 10 - subtract across 10 - subtract a 1-digit from a 2-digit (across a 10) - add 2 2-digit numbers (across 10) - subtract 2 2-digit numbers Money <ul style="list-style-type: none"> - count money (pence) - count money (pounds) - count money (£ and p) - choose notes and coins - make the same amount - compare amounts of money - calculate with money - make a pound - find change - two-step problems | Multiplication and division <ul style="list-style-type: none"> - recognise equal groups - make equal groups - add equal groups - introduce the x symbol - multiplication sentences - use arrays - make equal groups (grouping) - make equal groups (sharing) - 2x table - divide by 2 - doubling and halving - odd and even numbers - 10x table - divide by 10 - 5x table - divide by 5 - 10 and 5 x tables Length and height <ul style="list-style-type: none"> - measure in cm - measure in m - compare length and height | Fractions <ul style="list-style-type: none"> - parts and wholes - equal and unequal parts - recognise a half - find a half - recognise a quarter - find a quarter - recognise a third - find the whole - unit fractions - non-unit fractions - recognise the equivalence of half and two quarters - recognise three-quarters - find three-quarters - count in fractions up to a whole Position and direction <ul style="list-style-type: none"> - language of position - describe movement - describe turns - describe movement and turns - shape patterns with turns | Statistics <ul style="list-style-type: none"> - make tally charts - tables - block diagrams - draw pictograms (1-1) - interpret pictograms (1-1) - draw pictograms (2,5 and 10) - interpret pictograms (2,5 and 10) Mass, capacity and temperature <ul style="list-style-type: none"> - compare mass - measure in g - measure in kg - four operations in mass - compare volume and capacity - measure in ml - measure in l - four operations in volume and capacity - temperature |

Maths Small Steps

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| <ul style="list-style-type: none"> - bonds to 10 - fact families within 20 - related facts - bonds to 100 (tens) - add and subtract 1's - add by making 10 - add 3 1-digit numbers - add to the next ten - subtract from a 10 - 10 more, 10 less - add and subtract 10's - add 2 2-digit numbers - subtract 2 2-digit numbers - mixed addition and subtraction - compare number sentences - missing number problems | <ul style="list-style-type: none"> - tell the time past the hour - tell the time to the hour - tell to the time to 5 minutes - minutes in an hour - hours in a day | | <ul style="list-style-type: none"> - order length and height - four operations with length and height | | |
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Shape, space and measure

number/PV

Statistics

multiplication and division

Addition and subtraction

Fractions

Year 3

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Place Value <ul style="list-style-type: none"> - Represent numbers to 100 - Partition numbers to 100 - Number line to 100 - Hundreds - Represent numbers to 1,000 - Partition numbers to 1,000 - Flexible partitioning of numbers to 1,000 - Hundreds, tens and ones - Find 1, 10 or 100 more or less - Number line to 1,000 - Estimate on a number line to 1,000 - Compare numbers to 1,000 - Order numbers to 1,000 - Count in 50s Addition and subtraction <ul style="list-style-type: none"> - Apply number bonds within 10 | Addition and Subtraction <ul style="list-style-type: none"> - Add 2 numbers across a 10 - Add 2 numbers across a 100 - Subtract 2 numbers across a 10 - Subtract 2 numbers across a 100 - Add 2-digit and 3-digit numbers - Subtract a 2-digit number from a 3-digit number - Complements to 100 - Estimate answers - Inverse operations - Make decisions Multiplication and division <ul style="list-style-type: none"> - Multiplication equal groups - Use arrays - Multiples of 2 | Multiplication and Division <ul style="list-style-type: none"> - Multiples of 10 - Related calculations - Reasoning about multiplication - Multiply a 2-digit number by a 1-digit number – no exchange - Multiply a 2-digit number by a 1-digit number – with exchange - Link multiplication and division - Divide a 2-digit number by a 1-digit number – no exchange - Divide a 2-digit number by a 1-digit number – flexible partitioning - Divide a 2-digit number by a 1-digit number – with remainders - Scaling | Fractions <ul style="list-style-type: none"> - Understand the denominators of unit fractions - Compare and order unit fractions - Understand the numerators of non-unit fractions - Understand the whole - Compare and order non-unit fractions - Fractions and scales - Count fractions on a number line - Equivalent fractions on a number line - Equivalent fractions as bar models Mass and capacity <ul style="list-style-type: none"> - Use scales - Measure mass in grams - Measure mass in kilograms and grams - Equivalent mass in kg and g | Fractions <ul style="list-style-type: none"> - Add fractions - Subtract fractions - Partition the whole - Unit fractions of a set of objects - Non-unit fractions of a set of objects - Reasoning with fractions of an amount Money <ul style="list-style-type: none"> - Pounds and pence - Convert pounds and pence - Add money - Subtract money - Find change | Time <ul style="list-style-type: none"> - Roman numerals to 12 - Tell the time to the 5 minutes - Tell the time to the minute - Read time on a digital clock - Use am and pm - Years, months and days - Days and hours - Hours and minutes – use start and end times - Hours and minutes – use durations - Minutes and seconds - Units of time - Solve problems with time Shape <ul style="list-style-type: none"> - Turns and angles - Right angles - Compare angles |

Maths Small Steps

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| <ul style="list-style-type: none"> - Add and subtract 1's - Add and subtract tens - Add and subtract 100s - Spot the pattern - Add 1s across a 10 - Subtract 1s across a 10 - Subtract 10s across a 100 - Make connections - Add 2 numbers (no exchange) - Subtract 2 numbers (no exchange) | <ul style="list-style-type: none"> - Multiples of 5 and 10 - Sharing and grouping - Multiply by 3 - Divide by 3 - The 3x table - Multiply by 4 - Divide by 4 - The 4x table - Multiply by 8 - Divide by 8 - The 8x table - The 2,4 and 8x table | <ul style="list-style-type: none"> - How many ways? Length and perimeter - Measure in m and cm - Measure in mm - Measure in cm and mm - Metres, centimetres and millimetres - Equivalent lengths (m and cm) - Equivalent lengths (mm and cm) - Compare lengths - Add lengths - Subtract lengths - What is perimeter - Measure perimeter - Calculate perimeter | <ul style="list-style-type: none"> - Compare mass - Add and subtract mass - Measure capacity and volume in ml - Measure capacity and volume in l and ml - Equivalent capacities and volumes (l and ml) - Compare capacity and volume - Add and subtract capacity and volume | | <ul style="list-style-type: none"> - Measure and draw accurately - Horizontal and vertical - Parallel and perpendicular - Recognise and describe 2D shapes - Draw polygons - Recognise and describe 3D shapes - Make 3D shapes Statistics - Interpret pictograms - Draw pictograms - Interpret bar charts - Draw bar charts - Collect and represent data - Two-way tables |
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Shape, space and measure

number/PV

Statistics

multiplication and division

Addition and subtraction

Fractions

Year 4

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Place Value <ul style="list-style-type: none"> - Represent numbers to 1,000 - Partition to numbers to 1,000 - Number line to 1,000 - Thousands - Represent numbers to 10,000 - Partition to numbers to 10,000 - Flexible partitioning of numbers to 10,000 - Find 1, 10, 100, 1,000 more or less - Number line to 10,000 - Estimate on a number line to 10,000 - Compare numbers to 10,000 - Roman numerals - Round to the nearest 10 - Round to the nearest 100 - Round to the nearest 1,000 - Round to the nearest 10. 100 or 1,000 | Area <ul style="list-style-type: none"> - What is area? - Count squares - Make shapes - Compare areas Multiplication and Division <ul style="list-style-type: none"> - Multiples of 3 - Multiply and divide by 6 - 6x table and division facts - Multiply and divide by 9 - 9x table and division facts - The 3, 6 and 9x table - Multiply and divide by 7 - 7x table and division facts - 11x table and division facts - 12x table and division facts - Multiply by 1 and 0 | Multiplication and Division <ul style="list-style-type: none"> - Factor pairs - Use factor pairs - Multiply by 10 - Multiply by 100 - Divide by 10 - Divide by 100 - Relate facts – multiplication and division - Informal written methods for multiplication - Multiply a 2-digit number by a 1-digit number - Multiply a 3-digit number by a 1-digit number - Divide a 2-digit number by a 1-digit number (a) - Divide a 2-digit number by a 1-digit number (b) - Divide a 3-digit number by a 1-digit number | Fractions <ul style="list-style-type: none"> - Understand the whole - Count beyond 1 - Partition a mixed number - Number lines with mixed numbers - Compare and order mixed numbers - Understand improper fractions - Convert mixed numbers to improper fractions - Convert improper fractions to mixed numbers - Equivalent fractions on a number line - Equivalent fraction families - Add two or more fractions - Add fractions and mixed numbers - Subtract two fractions | Decimals <ul style="list-style-type: none"> - Make a whole with tenths - Make a whole with hundredths - Partition decimals - Flexibly partition decimals - Compare decimals - Order decimals - Round to the nearest whole number - Halves and quarters as decimals Money <ul style="list-style-type: none"> - Write money using decimals - Convert between pounds and pence - Compare amounts of money - Estimate with money - Calculate with money - Solve problems with money | Shape <ul style="list-style-type: none"> - Understand angles as turns - Identify angles - Compare and order angles - Triangles - Quadrilaterals - Polygons - Lines of symmetry - Complete a symmetric figure Statistics <ul style="list-style-type: none"> - Interpret charts - Comparison, sum and difference - Interpret line graphs - Draw line graphs Position and direction <ul style="list-style-type: none"> - Describe position using coordinates - Plot coordinates - Draw 2D shapes on grid - Translate on a grid - Describe translation on a grid |

Maths Small Steps

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| Addition and Subtraction <ul style="list-style-type: none"> - Add and subtract 1s, 10s, 100s and 1,000s - Add up to two 4-digit numbers – no exchange - Add two 4-digit numbers – no exchange - Add two 4-digit numbers – one exchange - Add two 4-digit numbers – more than one exchange - Subtract two 4-digit numbers – no exchange - Subtract two 4-digit numbers – one exchange - Subtract two 4-digit numbers – more than one exchange - Efficient subtraction - Estimate answers - Checking strategies | <ul style="list-style-type: none"> - Divide a number by 1 and itself - Multiply 3 numbers | <ul style="list-style-type: none"> - Correspondence problems - Efficient multiplication Length and Perimeter <ul style="list-style-type: none"> - Measure in kilometres and metres - Equivalent lengths (km and m) - Perimeter on a grid - Perimeter of a rectangle - Perimeter of a rectilinear shape - Find missing lengths in rectilinear shapes - Calculate perimeter of rectilinear shapes - Perimeter of regular polygons - Perimeter of polygons | <ul style="list-style-type: none"> - Subtract from whole numbers - Subtract from mixed numbers Decimals <ul style="list-style-type: none"> - Tenths as fractions - Tenths as decimals - Tenths on a place value chart - Tenths on a number line - Divide a 1-digit number by 10 - Divide a 2-digit number by 10 - Hundredths as fractions - Hundredths as decimals - Hundredths on a place value chart - Divide a 1- or 2-digit number by 100 | Time <ul style="list-style-type: none"> - Years, months, weeks and days - Hours, minutes and seconds - Convert between analogue and digital times - Convert to the 24-hour clock - Convert from the 24-hour clock | |
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Shape, space and measure

number/PV

Statistics

multiplication and division

Addition and subtraction

Fractions

Year 5

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|--|--|--|---|--|
| Place value <ul style="list-style-type: none"> - Roman numerals to 1,000 - Numbers to 10,000 - Numbers to 100,000 - Numbers to 1,000,000 - Read and write numbers to 1,000,000 - Powers of 10 - 10/100/1,000/10,000/100,000 more or less - Partition numbers to 1,000,000 - Number line to 1,000,000 - Compare and order numbers to 100,000 - Compare and order numbers to 1,000,000 - Round to the nearest 10, 100 or 1,000 - Round within 100,000 | Multiplication and division <ul style="list-style-type: none"> - Multiples - Common multiples - Factors - Common factors - Prime numbers - Square numbers - Cube numbers - Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiples of 10, 100 and 1,000 Fractions <ul style="list-style-type: none"> - Find fractions equivalent to a unit fraction - Find fractions equivalent to a non-unit fraction - Recognise equivalent fractions - Convert improper fractions to mixed numbers | Multiplication and division <ul style="list-style-type: none"> - Multiply up to a 4-digit number by a 1-digit number - Multiply a 2-digit number by a 2-digit number (area model) - Multiply a 2-digit number by a 2-digit number - Multiply a 3-digit number by a 2-digit number - Multiply a 4-digit number by a 2-digit number - Solve problems with multiplication - Short division - Divide a 4-digit number by a 1-digit number - Divide with remainders - Efficient division | Decimals and percentages <ul style="list-style-type: none"> - Decimals up to 2 decimal places - Equivalent fractions and decimals (tenths) - Equivalent fractions and decimals (hundredths) - Thousandths and fractions - Thousandths and decimals - Thousandths on a place value chart - Order and compare decimals (same number of decimal places) - Order and compare and decimal with up to 3-decimal places - Round to the nearest whole number - Round to 1-decimal place | Shape <ul style="list-style-type: none"> - Understand and use degrees - Classify angles - Estimate angles - Measure angles up to 180° - Draw lines and angles accurately - Calculate angles around a point - Calculate angles on a straight line - Lengths and angles in shapes - Regular and irregular polygons - 3D shapes Position and direction <ul style="list-style-type: none"> - Read and plot coordinates - Problem solving with coordinates - Translation - Translation with coordinates - Lines of symmetry - Reflection in horizontal and vertical lines | Negative numbers <ul style="list-style-type: none"> - Understand negative numbers - Count through zero in 1s - Count through zero in multiples - Count and order negative numbers - Find the difference Converting units <ul style="list-style-type: none"> - Kilograms and kilometres - Millimetres and millilitres - Convert units of length - Convert between metric and imperial units |

Maths Small Steps

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| <ul style="list-style-type: none"> - Round within 1,000,000 <p>Addition and subtraction</p> <ul style="list-style-type: none"> - Mental strategies - Add whole numbers with more than 4 digits - Subtract whole numbers with more than 4 digits - Round to check answers - Inverse operations (addition and subtraction) - Multi-step addition and subtraction problems - Compare calculations - Find missing numbers | <ul style="list-style-type: none"> - Convert mixed numbers to improper fractions - Compare fractions less than 1 - Order fractions less than 1 - Compare and order fractions greater than 1 - Add and subtract fractions with the same denominator - Add fractions within 1 - Add fractions with a total greater than 2 - Add to a mixed number - Add two mixed numbers - Subtract fractions - Subtract from a mixed number - Subtract from a mixed number – breaking the whole - Subtract two mixed numbers | <ul style="list-style-type: none"> - Solve problems with multiplication and division <p>Fractions</p> <ul style="list-style-type: none"> - Multiply a unit fraction by an integer - Multiply a non-unit fraction by an integer - Multiply a mixed number by an integer - Calculate a fraction of a quantity - Fraction of an amount - Find the whole - Use fractions as operators | <ul style="list-style-type: none"> - Understand percentages - Percentages and fractions - Percentages as decimals - Equivalent fractions, decimals and percentages <p>Perimeter and area</p> <ul style="list-style-type: none"> - Perimeter of a rectangle - Perimeter of a rectilinear shape - Perimeter of polygons - Area of rectangles - Area of compound shapes - Estimate area <p>Statistics</p> <ul style="list-style-type: none"> - Draw line graphs - Read and interpret line graphs - Read and interpret tables - Two-way tables - Read and interpret timetables | <p>Decimals</p> <ul style="list-style-type: none"> - Use known facts to add and subtract decimals within 1 - Complements to 1 - Add and subtract decimals across 1 - Add decimals with the same number of decimal places - Subtract decimals with the same number of decimal places - Add decimals with different numbers of decimal places - Subtract decimals with different numbers of decimal places - Efficient strategies for adding and subtracting decimals - Decimal sequences - MultiOply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiply and divide decimals – missing values | <ul style="list-style-type: none"> - Convert units of time - Calculate with timetables <p>Volume</p> <ul style="list-style-type: none"> - Cubic centimetres - Compare volume - Estimate volume - Estimate capacity |
| Shape, space and measure | number/PV | Statistics | multiplication and division | Addition and subtraction | Fractions |

Year 6

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Place value <ul style="list-style-type: none"> - Numbers to 1,000,000 - Numbers to 10,000,000 - Read and write numbers to 10,000,000 - Powers of 10 - Number line to 10,000,000 - Compare and order any integers - Round any integer - Negative numbers Addition subtraction, multiplication and division <ul style="list-style-type: none"> - Add and subtract integers - Common factors - Common multiples - Rules of divisibility - Primes to 100 - Square and cube numbers | Fractions <ul style="list-style-type: none"> - Equivalent fractions and simplifying - Equivalent fractions on a number line - Compare and order (denominator) - Compare and order (numerator) - Add and subtract simple fractions - Add and subtract any two fractions - Add mixed number fractions - Subtract mixed number fractions - Multi step problems - Multiply fractions by integers - Multiply fractions by fractions - Divide a fraction by an integer - Divide any fraction by an integer - Mixed questions with fractions | Ratio <ul style="list-style-type: none"> - Add or multiply - Use ratio language - Introduction to the ratio symbol - Ratio and fractions - Scale drawing - Use scale factors - Similar shapes - Ratio problems - Proportion problems - Recipes Algebra <ul style="list-style-type: none"> - 1-step function machines - 2-step function machines - Form expressions - Formulae - Solve 1-step equations - Solve 2-step equations - Find pairs of values - Solve problems with two unknowns Decimals <ul style="list-style-type: none"> - Place Value within 1 | Fractions, decimals and percentages <ul style="list-style-type: none"> - Decimal and fraction equivalents - Fractions as division - Understand percentages - Fractions to percentages - Equivalent fractions, decimals and percentages - Order fractions, decimals and percentages - Percentage of an amount – one step - Percentage of an amount – multi-step - Percentages – missing values Area, perimeter and volume <ul style="list-style-type: none"> - Shapes – same area - Area and perimeter - Area of a triangle – counting squares | Shape <ul style="list-style-type: none"> - Measure and classify angles - Calculate angles - Vertically opposite angles - Angles in a triangle - Angles in a triangle – special cases - Areas in a triangle – missing angles - Angles in a quadrilateral - Angles in polygons - Circles - Draw shapes accurately - Nets of 3D shapes Position and direction <ul style="list-style-type: none"> - The first quadrant - Read and plot points in four quadrants - Solve problems with coordinates - Translations - Reflections | Themed projects and problem solving |

Maths Small Steps

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| <ul style="list-style-type: none"> - Multiply up to a 4-digit number by a 2-digit number - Solve problems with multiplication - Short division - Division using factors - Introduction to long division - Long division with remainders - Solve problems with division - Solve multi-step problems - Order of operations - Mental calculations and estimation - Reason from known facts | <ul style="list-style-type: none"> - Fractions of an amount - Fraction of an amount – find the whole <p>Converting units</p> <ul style="list-style-type: none"> - Metric measures - Convert metric measures - Calculate with metric measures - Miles and kilometres - Imperial measures | <ul style="list-style-type: none"> - Place value –integers and decimals - Round decimals - Add and subtract decimals - Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiply decimals by integers - Divide decimals by integers - Multiply and divide decimals in context | <ul style="list-style-type: none"> - Area of a right-angled triangle - Area of any triangle - Area of a parallelogram - Volume – counting cubes - Volume of a cuboid <p>Statistics</p> <ul style="list-style-type: none"> - Line graphs - Dual bar charts - Read and interpret pie charts - Draw pie charts - The mean | | |
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Shape, space and measure

number/PV

Comparison

Calculations

Fractions