

Maths Long Term Overview - EYFS to Year 6

EYFS Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---|--------|--------|------------------|--------|--------|-------------------|--------|--------|----------------|---------|---------|
| Autumn | Getting to know you (Take this time to play and get to know the children!) | | | Just like me! | | | It's me 1, 2, 3! | | | Light and Dark | | |
| Spring | Alive in 5! | | | Growing 6, 7, 8 | | | Building 9 and 10 | | | Consolidation | | |
| Summer | To 20 and Beyond | | | First, then, now | | | Find My Pattern | | | On the Move | | |

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Year 1 Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|--|--|--------|--|---|--|--|--------|---|--|---|---------------|
| Autumn term | Number Place value (within 10) VIEW | | | | | Number Addition and subtraction (within 10) VIEW | | | | | Geometry Shape VIEW | Consolidation |
| Spring term | Number Place value (within 20) VIEW | Number Addition and subtraction (within 20) VIEW | | | Number Place value (within 50) VIEW | | Measurement Length and height VIEW | | Measurement Mass and volume VIEW | | | |
| Summer term | Number Multiplication and division VIEW | | | Number Fractions VIEW | | Geometry Position and direction VIEW | Number Place value (within 100) VIEW | | Measurement Money VIEW | Measurement Time VIEW | | Consolidation |

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Year 2 Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|--|--|--------|--|---|---|---|--|--|---------------|---------|---------|
| Autumn term | Number Place value VIEW | | | | Number Addition and subtraction VIEW | | | | Geometry Shape VIEW | | | |
| Spring term | Measurement Money VIEW | Number Multiplication and division VIEW | | | | | Measurement Length and height VIEW | Measurement Mass, capacity and temperature VIEW | | | | |
| Summer term | Number Fractions VIEW | | | Measurement Time VIEW | | Statistics VIEW | | Geometry Position and direction VIEW | | Consolidation | | |

Maths Long Term Overview - EYFS to Year 6

Year 3 Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|--|---|--|--------|--|---|--|---------------|--------|---------|---------|---------|
| Autumn term | Number Place value VIEW | | Number Addition and subtraction VIEW | | | | Number Multiplication and division A VIEW | | | | | |
| Spring term | Number Multiplication and division B VIEW | | Measurement Length and perimeter VIEW | | Number Fractions A VIEW | | Measurement Mass and capacity VIEW | | | | | |
| Summer term | Number Fractions B VIEW | Measurement Money VIEW | Measurement Time VIEW | | Geometry Shape VIEW | Statistics Statistics VIEW | | Consolidation | | | | |

Maths Long Term Overview - EYFS to Year 6

Year 4 Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|--|--------|--|--------|------------------------------------|--------|--|-------------------------------------|----------------------------------|---------|--------------------|---|
| Autumn term | Number Place value VIEW | | Number Addition and subtraction VIEW | | Measurement Area VIEW | | Number Multiplication and division A VIEW | | Consolidation | | | |
| Spring term | Number Multiplication and division B VIEW | | Measurement Length and perimeter VIEW | | Number Fractions VIEW | | | Number Decimals A VIEW | | | | |
| Summer term | Number Decimals B VIEW | | Measurement Money VIEW | | Measurement Time VIEW | | Consolidation | | Geometry Shape VIEW | | Statistics VIEW | Geometry Position and direction VIEW |

Maths Long Term Overview - EYFS to Year 6

Year 5 Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|--|--------|---|--------|--|--------|--------|--|--|---|--|---------|
| Autumn term | Number Place value VIEW | | Number Addition and subtraction VIEW | | Number Multiplication and division A VIEW | | | Number Fractions A VIEW | | | | |
| Spring term | Number Multiplication and division B VIEW | | Number Fractions B VIEW | | Number Decimals and percentages VIEW | | | Measurement Perimeter and area VIEW | | Statistics VIEW | | |
| Summer term | Geometry Shape VIEW | | Geometry Position and direction VIEW | | Number Decimals VIEW | | | Number Negative numbers VIEW | Measurement Converting units VIEW | | Measurement Volume VIEW | |

Maths Long Term Overview - EYFS to Year 6

Year 6 Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|--------------------------------------|--------|---|---|---|--------|--|--------|--|---------|---|---------|
| Autumn term | Number Place value VIEW | | Number Addition, subtraction, multiplication and division VIEW | | | | Number Fractions A VIEW | | Number Fractions B VIEW | | Measurement Converting units VIEW | |
| Spring term | Number Ratio VIEW | | Number Algebra VIEW | | Number Decimals VIEW | | Number Fractions, decimals and percentages VIEW | | Measurement Area, perimeter and volume VIEW | | Statistics VIEW | |
| Summer term | Geometry Shape VIEW | | | Geometry Position and direction VIEW | Themed projects, consolidation and problem solving VIEW | | | | | | | |

Maths Progression - EYFS to Year 6

EYFS Development Matters 2020 Statements and ELGs Mathematics

Birth to Three

- Combine objects like stacking blocks and cups. Put objects inside others and take them out again.
- Take part in finger rhymes with numbers.
- React to changes of amount in a group of up to three items.
- Compare amounts, saying 'lots', 'more' or 'same'.
- Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence.
- Count in everyday contexts, sometimes skipping numbers - '1-2-3-5.'
- Climb and squeeze themselves into different types of spaces.
- Build with a range of resources.
- Complete inset puzzles.
- Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'.
- Notice patterns and arrange things in patterns.

Three and Four-Year-Olds

- Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').
- Recite numbers past 5.
- Say one number for each item in order: 1,2,3,4,5.
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').
- Show 'finger numbers' up to 5.
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers up to 5.
- Compare quantities using language: 'more than', 'fewer than'.
- Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.
- Understand position through words alone – for example, "The bag is under the table," – with no pointing.
- Describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity.
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc.
- Combine shapes to make new ones – an arch, a bigger triangle, etc.
- Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc.
- Extend and create ABAB patterns – stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.
- Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'

Children in Reception

- Count objects, actions and sounds.
- Subitise.
- Link the number symbol (numeral) with its cardinal number value.
- Count beyond ten.
- Compare numbers.
- Understand the 'one more than/one less than' relationship between consecutive numbers.
- Explore the composition of numbers to 10.
- Automatically recall number bonds for numbers 0–5 and some to 10.
- Select, rotate and manipulate shapes in order to develop spatial reasoning skills.
- Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
- Continue, copy and create repeating patterns.
- Compare length, weight and capacity.

Early Learning Goals

Number

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Numerical Patterns

- Verbally count beyond 20, recognising the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Maths Progression - EYFS to Year 6

Primary Progression – Place Value



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---------------------------|--|---|---|---|---|--|
| Place Value: Counting | <ul style="list-style-type: none"> count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of twos, fives and tens <p>Autumn 1 Autumn 4 Spring 2 Summer 4</p> | <ul style="list-style-type: none"> count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward <p>Autumn 1</p> | <ul style="list-style-type: none"> count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number <p>Autumn 1 Autumn 3</p> | <ul style="list-style-type: none"> count in multiples of 6, 7, 9, 25 and 1000 count backwards through zero to include negative numbers <p>Autumn 1 Autumn 4</p> | <ul style="list-style-type: none"> count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 count forwards and backwards with positive and negative whole numbers, including through zero <p>Autumn 1</p> | |
| Place Value: Represent | <ul style="list-style-type: none"> identify and represent numbers using objects and pictorial representations read and write numbers to 100 in numerals read and write numbers from 1 to 20 in numerals and words. <p>Autumn 1 Autumn 4 Spring 2 Summer 4</p> | <ul style="list-style-type: none"> read and write numbers to at least 100 in numerals and in words identify, represent and estimate numbers using different representations, including the number line <p>Autumn 1</p> | <ul style="list-style-type: none"> identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words <p>Autumn 1</p> | <ul style="list-style-type: none"> identify, represent and estimate numbers using different representations read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value <p>Autumn 1</p> | <ul style="list-style-type: none"> read, write, (order and compare) numbers to at least 1 000 000 and determine the value of each digit read Roman numerals to 1000 (M) and recognise years written in Roman numerals. <p>Autumn 1</p> | <ul style="list-style-type: none"> read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit <p>Autumn 1</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Place Value



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-------------------------------------|---|--|--|---|--|--|
| Place Value : Use PV and Compare | <ul style="list-style-type: none"> given a number, identify one more and one less <p style="text-align: center;">Autumn 1 Autumn 4 Spring 2 Summer 4</p> | <ul style="list-style-type: none"> recognise the place value of each digit in a two-digit number (tens, ones) compare and order numbers from 0 up to 100; use $<$ $>$ and $=$ signs <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000 <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> find 1000 more or less than a given number recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> (read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> (read, write), order and compare numbers up to 10 000 000 and determine the value of each digit <p style="text-align: center;">Autumn 1</p> |
| Place Value: Problems & Rounding | | <ul style="list-style-type: none"> use place value and number facts to solve problems. <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> solve number problems and practical problems involving these ideas <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> round any number to the nearest 10, 100 or 1000 solve number and practical problems that involve all of the above and with increasingly large positive numbers <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> 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 problems and practical problems that involve all of the above <p style="text-align: center;">Autumn 1</p> | <ul style="list-style-type: none"> round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above <p style="text-align: center;">Autumn 1</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Addition & Subtraction



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|--|--|---|--|--------|
| Addition & Subtraction: Recall, Represent, Use | <ul style="list-style-type: none"> read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs represent and use number bonds and related subtraction facts within 20 <p>Autumn 2 Spring 1</p> | <ul style="list-style-type: none"> recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems <p>Autumn 2</p> | <ul style="list-style-type: none"> estimate the answer to a calculation and use inverse operations to check answers <p>Autumn 2</p> | <ul style="list-style-type: none"> estimate and use inverse operations to check answers to a calculation <p>Autumn 2</p> | <ul style="list-style-type: none"> use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <p>Autumn 2</p> | |

Maths Progression - EYFS to Year 6

Primary Progression – Addition & Subtraction



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|---|---|--|---|--|
| Addition & Subtraction: Calculations | <ul style="list-style-type: none"> add and subtract one-digit and two-digit numbers to 20, including zero <p style="text-align: center;">Autumn 2 Spring 1</p> | <ul style="list-style-type: none"> add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens a three-digit number and hundreds add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) add and subtract numbers mentally with increasingly large numbers <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to carry out calculations involving the four operations <p style="text-align: center;">Autumn 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Addition & Subtraction



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|--|--|---|--|--|--|
| Addition & Subtraction: Solve Problems | <ul style="list-style-type: none"> solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ <p style="text-align: center;">Autumn 2 Spring 1</p> | <ul style="list-style-type: none"> solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <p style="text-align: center;">Autumn 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Addition & Subtraction



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|--|--|---|--|--|--|
| Addition & Subtraction: Solve Problems | <ul style="list-style-type: none"> solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ <p style="text-align: center;">Autumn 2 Spring 1</p> | <ul style="list-style-type: none"> solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <p style="text-align: center;">Autumn 2</p> | <ul style="list-style-type: none"> solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <p style="text-align: center;">Autumn 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression - Multiplication & Division



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|--------|--|---|--|--|---|
| Multiplication & Division: Recall, Represent, Use | | <ul style="list-style-type: none"> recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <p style="text-align: center;">Autumn 4 Spring 1</p> | <ul style="list-style-type: none"> recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables <p style="text-align: center;">Autumn 3</p> | <ul style="list-style-type: none"> recall multiplication and division facts for multiplication tables up to 12×12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations <p style="text-align: center;">Autumn 4 Spring 1</p> | <ul style="list-style-type: none"> 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 up to 19 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) <p style="text-align: center;">Autumn 4</p> | <ul style="list-style-type: none"> identify common factors, common multiples and prime numbers use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. <p style="text-align: center;">Autumn 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Multiplication & Division



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|--------|--|---|---|--|--|
| Multiplication & Division: Calculations | | <ul style="list-style-type: none"> calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs <p style="text-align: center;">Autumn 4 Spring 1</p> | <ul style="list-style-type: none"> write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods <p style="text-align: center;">Autumn 3 Spring 1</p> | <ul style="list-style-type: none"> multiply two-digit and three-digit numbers by a one-digit number using formal written layout <p style="text-align: center;">Spring 1</p> | <ul style="list-style-type: none"> multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers multiply and divide numbers mentally drawing upon known facts divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 <p style="text-align: center;">Autumn 4 Spring 1 Summer 1</p> | <ul style="list-style-type: none"> multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context perform mental calculations, including with mixed operations and large numbers <p style="text-align: center;">Autumn 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Multiplication & Division



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|--|---|--|--|--|
| Multiplication & Division: Solve Problems | <ul style="list-style-type: none"> solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher <p style="text-align: center;">Summer 1</p> | <ul style="list-style-type: none"> solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts <p style="text-align: center;">Autumn 4 Spring 1</p> | <ul style="list-style-type: none"> solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects <p style="text-align: center;">Spring 1</p> | <ul style="list-style-type: none"> solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects <p style="text-align: center;">Spring 1</p> | <ul style="list-style-type: none"> solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates <p style="text-align: center;">Autumn 4 Spring 1</p> | <ul style="list-style-type: none"> solve problems involving addition, subtraction, multiplication and division <p style="text-align: center;">Autumn 2</p> |
| Multiplication & Division: Combined Operations | | | | | <ul style="list-style-type: none"> solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <p style="text-align: center;">Spring 1</p> | <ul style="list-style-type: none"> use their knowledge of the order of operations to carry out calculations involving the four operations <p style="text-align: center;">Autumn 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Fractions, Decimals, Percentages



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-----------------------------------|--|--|--|---|--|--|
| Fractions: Recognise and Write | <ul style="list-style-type: none"> recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity <p>Summer 2</p> | <ul style="list-style-type: none"> recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity <p>Spring 4</p> | <ul style="list-style-type: none"> count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators <p>Spring 5</p> | <ul style="list-style-type: none"> count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. <p>Spring 3</p> | <ul style="list-style-type: none"> identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$] <p>Spring 2</p> | |
| Fractions: Compare | | <ul style="list-style-type: none"> Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ <p>Spring 4</p> | <ul style="list-style-type: none"> recognise and show, using diagrams, equivalent fractions with small denominators compare and order unit fractions, and fractions with the same denominators <p>Summer 1</p> | <ul style="list-style-type: none"> recognise and show, using diagrams, families of common equivalent fractions <p>Spring 3</p> | <ul style="list-style-type: none"> compare and order fractions whose denominators are all multiples of the same number <p>Spring 2</p> | <ul style="list-style-type: none"> use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions > 1 <p>Autumn 3</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Fractions, Decimals, Percentages



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|------------------------------|--------|---|---|---|--|---|
| Fractions: Calculations | | <ul style="list-style-type: none"> write simple fractions for example, $\frac{1}{2}$ of 6 = 3 <p style="text-align: center;">Spring 4</p> | <ul style="list-style-type: none"> add and subtract fractions with the same denominator within one whole [for example, $\frac{3}{7} + \frac{1}{7} = \frac{4}{7}$] <p style="text-align: center;">Summer 1</p> | <ul style="list-style-type: none"> add and subtract fractions with the same denominator <p style="text-align: center;">Spring 3</p> | <ul style="list-style-type: none"> add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams <p style="text-align: center;">Spring 3</p> | <ul style="list-style-type: none"> add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$] <p style="text-align: center;">Autumn 3</p> |
| Fractions: Solve Problems | | | <ul style="list-style-type: none"> solve problems that involve all of the above <p style="text-align: center;">Spring 5 Summer 1</p> | <ul style="list-style-type: none"> solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number <p style="text-align: center;">Spring 3</p> | | |

Maths Progression - EYFS to Year 6

Primary Progression – Fractions, Decimals, Percentages



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|----------------------------------|--------|--------|--------|---|--|---|
| Decimals: Recognise and Write | | | | <ul style="list-style-type: none"> recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$ <p>Spring 4 Summer 1</p> | <ul style="list-style-type: none"> read and write decimal numbers as fractions (for example, $0.71 = \frac{71}{100}$) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents <p>Spring 3</p> | <ul style="list-style-type: none"> identify the value of each digit in numbers given to three decimal places <p>Spring 1</p> |
| Decimals: Compare | | | | <ul style="list-style-type: none"> round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places <p>Summer 1</p> | <ul style="list-style-type: none"> round decimals with two decimal places to the nearest whole number and to one decimal place read, write, order and compare numbers with up to three decimal places <p>Spring 3</p> | |

Maths Progression - EYFS to Year 6

Primary Progression - Fractions, Decimals, Percentages



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--------------------------------------|--------|--------|--------|--|--|--|
| Decimals: Calculations & Problems | | | | <ul style="list-style-type: none"> find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths <p>Spring 4</p> | <ul style="list-style-type: none"> solve problems involving number up to three decimal places <p>Summer 1</p> | <ul style="list-style-type: none"> multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply one-digit numbers with up to two decimal places by whole numbers use written division methods in cases where the answer has up to two decimal places solve problems which require answers to be rounded to specified degrees of accuracy <p>Spring 1</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Fractions, Decimals, Percentages



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-------------------------------------|--------|--------|--------|--|---|--|
| Fractions, Decimals and Percentages | | | | <ul style="list-style-type: none"> solve simple measure and money problems involving fractions and decimals to two decimal places <p>Spring 3 Spring 4 Summer 1</p> | <ul style="list-style-type: none"> recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 <p>Spring 3</p> | <ul style="list-style-type: none"> associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] recall and use equivalences between simple fractions, decimals and percentages, including in different contexts <p>Spring 1 Spring 2</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Ratio and Proportion



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|----------------------|--------|--------|--------|--------|--------|---|
| Ratio and Proportion | | | | | | <ul style="list-style-type: none">• solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts• solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison• solve problems involving similar shapes where the scale factor is known or can be found• solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. <p>Spring 6</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Algebra



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---------|---|--|---|--------|--------|--|
| Algebra | <ul style="list-style-type: none"> solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ | <ul style="list-style-type: none"> recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | <ul style="list-style-type: none"> solve problems, including missing number problems | | | <ul style="list-style-type: none"> use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables. <p style="text-align: right;">Spring 3</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Measurement



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|--|---|---|--|---|---|
| Measurement: Using Measures | <ul style="list-style-type: none"> • compare, describe and solve practical problems for: <ul style="list-style-type: none"> ➤ lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] ➤ mass/weight [for example, heavy/light, heavier than, lighter than] ➤ capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] ➤ time [for example, quicker, slower, earlier, later] • measure and begin to record the following: <ul style="list-style-type: none"> ➤ lengths and heights ➤ mass/weight ➤ capacity and volume ➤ time (hours, minutes, seconds) <p style="text-align: center;">Spring 3 Spring 4 Summer 6</p> | <ul style="list-style-type: none"> • choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels • compare and order lengths, mass, volume/capacity and record the results using >, < and = <p style="text-align: center;">Spring 5 Summer 4</p> | <ul style="list-style-type: none"> • measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) <p style="text-align: center;">Spring 4 Summer 4</p> | <ul style="list-style-type: none"> • Convert between different units of measure [for example, kilometre to metre; hour to minute] • estimate, compare and calculate different measures <p style="text-align: center;">Autumn 3 Spring 2 Summer 3</p> | <ul style="list-style-type: none"> • convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) • understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling <p style="text-align: center;">Summer 1 Summer 4 Summer 5</p> | <ul style="list-style-type: none"> • solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate • use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places • convert between miles and kilometres <p style="text-align: center;">Spring 4</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Measurement



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-----------------------|--|---|--|---|--|--------|
| Measurement: Money | <ul style="list-style-type: none"> recognise and know the value of different denominations of coins and notes <p>Summer 5</p> | <ul style="list-style-type: none"> recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change <p>Autumn 3</p> | <ul style="list-style-type: none"> add and subtract amounts of money to give change, using both £ and p in practical contexts <p>Spring 2</p> | <ul style="list-style-type: none"> estimate, compare and calculate different measures, including money in pounds and pence <p>Summer 2</p> | <ul style="list-style-type: none"> use all four operations to solve problems involving measure [for example, money] <p>Summer 1</p> | |

Maths Progression - EYFS to Year 6

Primary Progression – Measurement



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|----------------------|--|--|--|---|---|---|
| Measurement: Time | <ul style="list-style-type: none"> sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and half past the hour and draw the hands on a clock face to show these times <p>Summer 6</p> | <ul style="list-style-type: none"> compare and sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day <p>Summer 3</p> | <ul style="list-style-type: none"> tell and write the time from an analogue clock, including using Roman numerals from I to XI, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time taken by particular events or tasks] <p>Summer 2</p> | <ul style="list-style-type: none"> read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days <p>Summer 3</p> | <ul style="list-style-type: none"> solve problems involving converting between units of time <p>Summer 4</p> | <ul style="list-style-type: none"> use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa <p>Year 5 Summer 4</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Measurement



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|--------|--------|--|---|--|---|
| Measurement: Perimeter, Area, Volume | | | <ul style="list-style-type: none"> measure the perimeter of simple 2-D shapes <p style="text-align: center;">Spring 4</p> | <ul style="list-style-type: none"> measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares <p style="text-align: center;">Autumn 3 Spring 2</p> | <ul style="list-style-type: none"> 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 (cm²) and square metres (m²) and estimate the area of irregular shapes estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] <p style="text-align: center;">Autumn 5 Summer 5</p> | <ul style="list-style-type: none"> recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³] <p style="text-align: center;">Spring 5</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Geometry



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-------------------------|--|---|--|---|--|--|
| Geometry: 2-D Shapes | <ul style="list-style-type: none"> recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles] <p style="text-align: center;">Autumn 3</p> | <ul style="list-style-type: none"> identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D shapes and everyday objects <p style="text-align: center;">Spring 3</p> | <ul style="list-style-type: none"> draw 2-D shapes <p style="text-align: center;">Summer 3</p> | <ul style="list-style-type: none"> compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify lines of symmetry in 2-D shapes presented in different orientations <p style="text-align: center;">Summer 5</p> | <ul style="list-style-type: none"> distinguish between regular and irregular polygons based on reasoning about equal sides and angles. use the properties of rectangles to deduce related facts and find missing lengths and angles <p style="text-align: center;">Summer 2</p> | <ul style="list-style-type: none"> draw 2-D shapes using given dimensions and angles compare and classify geometric shapes based on their properties and sizes illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius <p style="text-align: center;">Summer 1</p> |
| Geometry: 3-D Shapes | <ul style="list-style-type: none"> recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] <p style="text-align: center;">Autumn 3</p> | <ul style="list-style-type: none"> recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. compare and sort common 3-D shapes and everyday objects <p style="text-align: center;">Spring 3</p> | <ul style="list-style-type: none"> make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them <p style="text-align: center;">Summer 3</p> | | <ul style="list-style-type: none"> identify 3-D shapes, including cubes and other cuboids, from 2-D representations <p style="text-align: center;">Summer 2</p> | <ul style="list-style-type: none"> recognise, describe and build simple 3-D shapes, including making nets <p style="text-align: center;">Summer 1</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Geometry



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-----------------------------|--------|--------|--|--|--|--|
| Geometry: Angles & Lines | | | <ul style="list-style-type: none"> recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines <p style="text-align: center;">Summer 3</p> | <ul style="list-style-type: none"> identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry <p style="text-align: center;">Summer 5</p> | <ul style="list-style-type: none"> know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees identify: <ul style="list-style-type: none"> angles at a point and one whole turn (total 360°) angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90° <p style="text-align: center;">Summer 2</p> | <ul style="list-style-type: none"> find unknown angles in any triangles, quadrilaterals, and regular polygons recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles <p style="text-align: center;">Summer 1</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Geometry



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|--|--------|---|---|---|
| Geometry: Position & Direction | <ul style="list-style-type: none"> describe position, direction and movement, including whole, half, quarter and three-quarter turns <p style="text-align: center;">Summer 3</p> | <ul style="list-style-type: none"> order and arrange combinations of mathematical objects in patterns and sequences use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) <p style="text-align: center;">Spring 3 Summer 1</p> | | <ul style="list-style-type: none"> describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon <p style="text-align: center;">Summer 6</p> | <ul style="list-style-type: none"> identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed <p style="text-align: center;">Summer 3</p> | <ul style="list-style-type: none"> describe positions on the full coordinate grid (all four quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes <p style="text-align: center;">Autumn 4</p> |

Maths Progression - EYFS to Year 6

Primary Progression – Statistics



| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--------------------------------------|--------|---|---|---|--|---|
| Statistics: Present and Interpret | | <ul style="list-style-type: none"> interpret and construct simple pictograms, tally charts, block diagrams and simple tables <p style="text-align: center;">Spring 2</p> | <ul style="list-style-type: none"> interpret and present data using bar charts, pictograms and tables <p style="text-align: center;">Spring 3</p> | <ul style="list-style-type: none"> interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs <p style="text-align: center;">Summer 4</p> | <ul style="list-style-type: none"> complete, read and interpret information in tables, including timetables <p style="text-align: center;">Autumn 3</p> | <ul style="list-style-type: none"> interpret and construct pie charts and line graphs and use these to solve problems <p style="text-align: center;">Summer 3</p> |
| Statistics: Solve Problems | | <ul style="list-style-type: none"> ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data <p style="text-align: center;">Spring 2</p> | <ul style="list-style-type: none"> solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables <p style="text-align: center;">Spring 3</p> | <ul style="list-style-type: none"> solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs <p style="text-align: center;">Summer 4</p> | <ul style="list-style-type: none"> solve comparison, sum and difference problems using information presented in a line graph <p style="text-align: center;">Autumn 3</p> | <ul style="list-style-type: none"> calculate and interpret the mean as an average <p style="text-align: center;">Summer 3</p> |



Progression of Key Vocabulary

Each section highlights the vocabulary that should be used within that year group.

Pupils and teachers should also build upon the vocabulary from previous years.

| | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|------------------------|--|---|---|--|---|---|--|
| Number and Place Value | One more One less Place Order Before First Second Third After Number Count Numbers up to twenty Number line Pictorial Answer All together Have left Equals Read Write Sort Patterns | Same as previous year group plus: Forwards Backwards Numerals Words Multiples Equal to More than Less than Fewer Most Least Identify Represent Digit Calculate Odd Even Pattern Numbers up to one hundred | Ones Tens Two- digit Estimate Place Value Solve Problems Greater than > Less than < Nearest ten Number facts Partition Count in steps Zero Compare Determine Value | Hundreds Three-digit ten more one hundred more ten less one hundred less Roman numeral Numbers up to one thousand | Thousands Four- digit Negative number One thousand more One thousand less Decimal Decimal place Rounding Place holder Nearest ten Nearest hundred Nearest thousand One place Whole number Integer Tenths Hundredths | Ten thousands Hundred thousands Millions Context Steps of powers Decimal equivalents Two decimal places Thousandths Numbers up to one million | Intervals across zero Three decimal places Hundredths Thousandths Ten thousandths Numbers up to ten million |

| | | | | | | | |
|---------------------------------|---|--|--|--|---|---|--|
| <p>Addition and Subtraction</p> | <p>Add Take away Number Number line Count on Count back Answer Doubling Halving Sharing Numbers to Ten/twenty Check</p> | <p>Subtract Addition Subtraction Adding Subtracting Single digit One step problem Concrete object Pictorial representation Missing number Problem Read Write Interpret Equals = Signs One-digit Two-digit Ones Mental Mentally</p> | <p>Columnar addition Columnar Subtraction Tens Order Inverse Relationship Calculation Solve problems Missing number problems Quantities Measures Formal Written method Mental method Method Operation Apply Whole number</p> | <p>Three-digit number Hundreds Estimate Number facts</p> | <p>Two step problems Context Four-digit</p> | <p>Increasingly large numbers More than 4 digits Rounding Determine Context Multi-step problems</p> | <p>Estimation Mixed operations</p> |
|---------------------------------|---|--|--|--|---|---|--|

| | | | | | | | |
|------------------------------------|--|---|---|---|--|---|---|
| <p>Multiplication and Division</p> | <p>sharing doubling halving number pattern</p> | <p>Multiples Twos Fives Tens Number Multiply Divide Multiplication Division One step problem Multiplication facts Division facts Multiplication tables Odd numbers Even numbers Share Equally Repeated division Missing number problem Estimate Inverse Formal written method Mathematical statement Recall Integer</p> | <p>Multiplication facts Division facts Multiplication tables Odd numbers Even numbers Share Equally Repeated division calculate</p> | <p>Missing number problem Estimate Inverse Formal written method Mathematical statement Recall Integer Two- digit One-digit</p> | <p>Derived facts Factors Factor pairs Scaling Problems Product Three-digit</p> | <p>Decimals Four-digit Long multiplication Short division Remainders Context Common factors Common Multiples Prime numbers Prime factors Composite numbers Square number Cube number Notation Squares Cubes</p> | <p>Scale factor Long division Whole number remainders Fractions Rounding Mixed operations</p> |
|------------------------------------|--|---|---|---|--|---|---|

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | Two-digit Derived facts Factors Factor pairs Scaling problems Three-digit Decimals Four-digit Long multiplication Short division Remainders Context Common factors Common multiples Scale factor Long division Whole number remainders Fractions Rounding Mixed Operations | | | | | |
|--|--|--|--|--|--|--|--|

| | | | | | | | |
|---------|--|---|--|--|---|--|---|
| Measure | Measure Measurement Size Weight Capacity Compare Solve Problems Object Time Long/est Short/est Tall/est Big/biggest Small/smallest Bigger than Smaller than Most Least Heaviest Lightest Large/est Different Same Wider Narrower First Last Next After Night Day Morning | Length Height Long Short Longer Shorter Tall Double Half Mass Heavy Light Heavier than Lighter than Volume Full Empty More than Less than Half Half full Quarter Quicker Slower Earlier Later Sequence events Chronological order Before After Next | Greater than > Less than < Equals = Intervals Standard units Estimate Direction Temperature Unit Scales Rulers Thermometers Measuring vessels Metres Centimetres Kilograms Grams Degrees Celsius Litres Millilitres Symbols Money Pounds (£) Pence (p) Different combinations Change Five past Ten past Quarter past Twenty past Twenty-five | Duration Time taken Nearest minute Record Seconds a.m. p.m. noon midnight kilometre add subtract millimetres perimeter simple 2-D shapes analogue clock roman numerals 12-hour 24-hour Leap year | Estimate Rectilinear figure Area Rectilinear shapes Convert | Square centimetres (cm ²) Square metres (m ²) Irregular shapes Volume (cm ³) Cubes Cuboids Square numbers Cube numbers Metric measure Metric units Imperial units Inches Pounds Pints | Decimal notation Cubic centimetres (cm ³) Cubic metres (m ³) Cubic millimetre (mm ³) Cubic kilometre (Km ³) Decimal places formulae Miles |
|---------|--|---|--|--|---|--|---|

| | | | | | | | |
|--|--|--|---|--|--|--|--|
| | Afternoon Yesterday Tomorrow Days of the week Seasons | First Today Yesterday Tomorrow Morning Afternoon Evening Record Hours Minutes Hour Half past O clock Hands Clock face Seconds Coins Notes Dates Days Weeks Months | past Half past Twenty-five to Twenty to Quarter to Ten to Five to | | | | |
|--|--|--|---|--|--|--|--|

| | | | | | | | |
|---------------------------------------|---|---|---|--|--|---|-------------------------------------|
| Geometry (Properties of Shapes) | Shape Square Rectangle Circle Triangle Straight Curved Flat Round Corner | 2-D Shapes 3-D Shapes Two- dimensional Three- dimensional Cuboid Cube Pyramid Cone Cylinder Sphere | Properties Compare Common Line symmetry Vertical line Edges Faces Vertices Pentagon Hexagon Heptagon Octagon Nonagon Decagon Kite Rhombus Polygon Square-based pyramid Triangular pyramid Triangular prism Rectangular prism Pentagonal prism Hexagonal prism Octagonal prism Octahedron Dodecahedron Tetrahedron | Angle Turn Right angles Quarter of a turn Half-turn Three quarters of a turn Complete turn Horizontal lines Vertical lines Diagonal lines Perpendicular lines Parallel lines | Lines of symmetry Symmetric figure Classify Geometric shapes Quadrilaterals Acute angle Obtuse angle Adjacent Intersect Regular polygons Irregular polygons Degrees Straight line Nets | Angles Measure Degrees Missing lengths Missing angles Estimate compare Reflex angle Point | Radius Diameter Circumference |
|---------------------------------------|---|---|---|--|--|---|-------------------------------------|

| | | | | | | | |
|--|--|---|--|--|---|--|---|
| | | | Rectangular pyramid Pentagonal pyramid Hexagonal pyramid Octagonal pyramid | | | | |
| Geometry (Position and Direction) | In front of Behind On top of Next to In On Under Up Down Across | Position Distance Direction Move Movement Patterns Half turn Quarter turn Three-quarter turn Left Right Up Down | Rotation Right angle Clockwise Anti-clockwise Order Arrange Sequence | | Co-ordinates Quadrant Grid Translate Translation Axis X- axis Y-axis Spaces Unit Plot Point Polygon Reflection | Four quadrants | |
| Fractions, Decimals and Percentages | | Fraction Half Equal parts One whole Object Shape Quantity Quarter | Simple fractions Equivalent equivalence Count | Tenths Unit fractions Non- unit fractions Numerator Denominator Compare Order Add Subtract Solve problems | Hundredths Decimal Decimal place One decimal place Two decimal places Round decimals Whole number Common | Thousandths Multiples Three decimal places Per cent Number of parts per hundred Percentages Decimal fraction | Common factors Common multiples Decimal fraction equivalents Simplest form |

| | | | | | | | |
|------------|--|--|---|---|--|---|---|
| | | | | | equivalent fractions Decimal equivalents Dividing Ones Tenths Hundredths Simple measure Money problems | Mixed numbers Improper fraction Proper fraction Convert Mathematical statements Multiply Percentage and decimal equivalents | |
| Statistics | | | Interpret Construct Pictogram Tally chart Block diagrams Horizontal Vertical x- axis y- axis key title chart title Simple tables Ask Answer Questions Counting Objects Category Sort Quantity Total Compare | Present Presented Graph Statistics Bar charts Tables Solve One - step questions Two - step questions Information | Time graphs Comparison Problems Timetables Line graph | | Pie chart Calculate Mean Average |

| | | | | | | | |
|-------------------------|--|---|---|--|---------------------------------------|--|--|
| | | | Data | | | | |
| Algebra | | Solve One -step problem Missing number Check Calculate problem Sequence Chronological | Inverse Relationship Compare Order Arrange Pattern | | Perimeter Algebra Algebraically | Properties Rectangles Deduce Related facts Missing lengths Missing angles | Missing number Problem Pairs Number sentence Variables Combination Possibility Enumerate Equation Formulae |
| Ratio and Proportion | | | | | | | Ratio Proportion Size Quantity Missing value Integer Multiplication Division Multiply Divide Solve Problem Calculate Percentage Comparison Unequal sharing Grouping Fractions |