## Maths Curriculum

At the Federation, we have developed a systematic approach to the teaching of maths, ensuring that our children attain the necessary skills and knowledge to succeed in the next stage of their education. Children are given opportunities to develop their mathematical fluency, through regular practice of calculations and mental strategies - ranging from number bonds and times tables to increasingly complex written methods. Our children are also given regular problem-solving and reasoning challenges in all year groups: these allow them to use their maths practically, develop their logical, strategic thinking and apply these skills to a range of real-life contexts. There has also been an increased focus on encouraging children to explain their mathematical thinking, both in written and verbal form, using precise mathematical vocabulary and on using concrete mathematical resources to support learning. Teachers at the Federation plan maths lessons to suit the needs of their class. Each child completes a cold task at the start of each unit of maths, from which teachers identify common misconceptions, targeting these within their lessons; the curriculum is made accessible to SEND children through careful differentiation, use of pre-teaching and post-teaching strategies and, in some cases, through more formal interventions. Similar strategies are employed, alongside regular quick-fire fluency practice, to close any emerging gaps in understanding. Whilst mathematical units are taught as blocks, teachers make links between them and frequently revisit content from previous units, and previous year groups, within their new content: for example, in lessons focused on measure, children will have regular opportunities to practise their number and fraction skills. Children then have the opportunity to demonstrate and celebrate their progress at the end of the unit; they also use their mathematical skills across the curriculum, for example in computing or science work. As a result of the work of teachers exploring new approaches to the teaching of Maths, children at both schools are increasingly enthusiastic and confident in their Maths lessons.

NB - the curriculum below represents the typical progression in a typical year. Covid-19 has forced adaptations to this overview in 2020-2021 and teachers may feel the need to adjust their overview and the specific timings - whilst ensuring complete curriculum coverage - based on the emerging needs of their cohort. Opportunities for consolidation are also built into the long-term plans and the specific focus for these will change depending upon the needs of the specific cohort.

## Early Years Foundation Stage

## Programme of Study - Statutory Framework 2021

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10 , the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

|  | Autumn | Spring | Summer |
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| Nursery | Number songs/rhymes <br> Number books <br> Recite numbers past 5 <br> Say one number for each item in order 1, 2, 3, 4, 5 <br> Show fingers up to 5 <br> Provide open ended problem solving activities and a wide variety of natural and | Subitising- develop recognition of up to 3 objects. <br> Know that the last number reached when counting tells you the total quantity. <br> Link numerals and amounts <br> Compare quantities using language more than, fewer than. <br> Experiment with their own symbols | Maths mark making <br> Solve mathematical problems with numbers up to 5 <br> Compare quantities using language more than, fewer than. <br> Talk about 2D and 3D shapes <br> Understand position through words alone. <br> Describe a familiar routine |



- 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.

| Strands | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 |
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|  |  |  | and ' 1 more' <br> -continue to match arrangements to finger patterns. |  | and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10 <br> -be encouraged to identify when it is appropriate to count and when groups can be subitised. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cardinality, ordinality and counting | -relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire set <br> -have a wide range of opportunities to develop their knowledge of the counting sequence, including through rhyme and song <br> -have a wide range of opportunities to | -continue to develop their counting skills <br> -explore the cardinality of 5, linking this to dice patterns and 5 fingers on 1 hand <br> -begin to count beyond 5 <br> -begin to recognise numerals, relating these to quantities they can subitise and count. | -continue to develop verbal counting to 20 and beyond <br> -continue to develop object counting skills, using a range of strategies to develop accuracy <br> -continue to link counting to cardinality, including using their fingers to represent quantities between 5 and 10 | -continue to consolidate their understanding of cardinality, working with larger numbers within 10 <br> -become more familiar with the counting pattern beyond 20. | -continue to develop verbal counting to 20 and beyond, including counting from different starting numbers <br> -continue to develop confidence and accuracy in both verbal and object counting. |  |


|  | develop 1:1 correspondence, including by coordinating movement and counting <br> -have opportunities to develop an understanding that anything can be counted, including actions and sounds <br> -explore a range of strategies which support accurate counting. |  | -order numbers, linking cardinal and ordinal representations of number. |  |  |  |
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| Composition | -see that all numbers can be made of 1 s -compose their own collections within 4. | -explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot <br> -explore the composition of | -continue to explore the composition of 5 and practise recalling 'missing' or 'hidden' parts for 5 <br> -explore the composition of 6, linking this to familiar patterns, including symmetrical | -explore the composition of odd and even numbers, looking at the 'shape' of these numbers <br> -begin to link even numbers to doubles <br> -begin to explore the composition of | -explore the composition of 10. |  |



|  | Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some <br> number bonds to 10, including double facts. <br> ELG Numerical Patterns <br> Verbally count beyond 20, recognising the pattern of the counting system. <br> Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other <br> quantity. <br> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed <br> easily. |
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## KS1 and KS2

|  | Autumn 1 Autumn 2 | Spring $1 \quad$ Spring 2 | Summer 1 Summer 2 |
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| Year 1 | Place Value and Number (statements will be adjusted to fit the needs of the class - initially working on place value to 10 and then to 20 in the Autumn term) <br> Count to and across 20, forwards and backwards, beginning with 0 or 1, or from any given number. | Multiplication and Division <br> 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. | Measure: Capacity and Mass <br> Compare, describe and solve practical problems for mass/weight [for example, heavy/light, heavier than, lighter than]. <br> Compare, describe and solve practical problems for capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]. |




|  |  |  |  |  | Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ ? -9 . |  |
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| Year 1 are also following the NCETM Mastering Number Programme (see above) - this will be as an additional short daily maths session. | Subitising | Subitising | Subitising | Subitising | Subitising | Subitising |
|  | Revisit subitising within 5 using perceptual subitising. <br> Practise conceptual | Continue to practise conceptually subitising numbers they have already explored the composition of. | Continue practise conceptually subitising numbers they have already | Continue to practise conceptually subitising numbers they have already | Continue to practise conceptually subitising numbers they have already explored the composition of. | Continue to use conceptual subitising, especially when using a rekenrek. |
|  | subitising of bigger numbers as they | Cardinality, | explored the composition of. | explored the composition of | Conceptually subitise numbers within 20 as | Composition |
|  | become more familiar with the patterns made by | Ordinality and Counting | Composition | Cardinality, | they become more familiar with the composition of numbers | Apply their knowledge of the composition of |
|  | the numbers 5-10. | number system to | composition of | Counting | within 20. | calculations within |
|  | Cardinality, Ordinality and Counting | 10 as they compare numbers. | numbers within 10, linking these to | Review the linear number system to | Cardinality, Ordinality and Counting | 10 and 20. <br> Comparison |
|  | Explore the linear number system | Composition Continue to explore | part-part-whole representations. | 10, looking at a range of representations, | Review the linear number system to 20 , looking at a range of | Continue to draw on their knowledge of |
|  | within 10, looking at a range of ordinal | the composition of the numbers 7-9 | Practise recalling missing parts | including a number line. | representations, including a number line | the relative size of numbers when answering |
|  | representations. <br> Explore the link between the | in-depth, linking this to their understanding | numbers within 10. | Explore the use of 'midpoints' to enable them to | Explore the use of 'midpoints' to enable them to identify the | questions using the inequality symbol. <br> Addition <br> and <br> Subtraction |
|  | between the 'staircase ' pattern and a number | odd and even numbers | Comparison | identify the location of other numbers. | location of other numbers. | Subtraction <br> Continue to practise |
|  |  | Explore the composition of 10, | Compare numbers within | Composition | Composition | recalling additive facts within 20, |


|  | Composition <br> Focus on the composition of numbers within 10, with a particular emphasis on the composition of numbers 6, 7, 8 and 9 as ' 5 and a bit', as well as exploring the composition of numbers 5 and 6 in-depth. <br> Explore the composition of odd and even numbers, identifying that even numbers are made of 2 s and odd numbers have 'an extra 1' - they will link this to the 'shape' of these numbers. | developing <br> systematic <br> approach to finding pairs that sum to 10. <br> Comparison <br> Revisit what is meant by 'comparing' and see that quantities can be compared according compared different attributes, including numerosity. | 10, linking this to their understanding of the linear system <br> Use the inequality symbol to create expressions, <br> e.g. $7>2$, and use the language of 'greater than' and 'less than'. <br> Reason about inequalities, drawing on their knowledge of the composition of numbers, e.g. Is this true or false? 3 and 2 is less than 4. <br> Addition and Subtraction <br> Develop their recall of number bonds within 10, through the use of exercises which use written numerals but not the | Review the composition of odd and even numbers, linking this to doubles and near doubles. <br> Explore the composition of the numbers 11-20, seeing representations which show the structure of these numbers as 'ten and a bit'. <br> Addition and Subtraction <br> Continue to develop their recall of bonds within 10, through the use of exercises which do NOT involve written equations, such as $4+3=$ ? <br> Identify doubles and near doubles through visual representations of odd and even | Continue to explore representations which expose the composition of numbers within 20. <br> Comparison <br> Compare numbers within 20, including questions which use the symbols ,$+<,>$, or $=$, such as: <br> True or false? $\begin{aligned} & 10+4<14 \\ & 10+4=14 \\ & 10+4>14 \end{aligned}$ <br> Addition <br> Subtraction <br> Develop their fluency in additive relationships within 10 , using a range of activities and games. <br> Draw on their knowledge of the composition of numbers to complete written equations <br> Revisit strategies for addition and subtraction within 10 and apply | applying their knowledge of the composition of numbers within 20 and strategies within 10. |
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|  |  | symbols,+- or $=$ \% | these to a range of questions, including written equations. |
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| Year 2 | Place Value and Number <br> Count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward or backward. <br> Recognise the place value of each digit in a two-digit number (tens, ones). <br> Identify, represent and estimate numbers using different representations, including the number line. <br> Compare and order numbers from 0 up to 100 ; use $<$, $>$ and $=$ signs. <br> Read and write numbers to at least 100 in numerals and in words. <br> Use place value and number facts to solve problems. <br> Addition and Subtraction <br> Solve one-step problems with addition and subtraction: using concrete | Multiplication and Division <br> Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers <br> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs <br> Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and | Continue Fractions <br> Recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity. <br> Write simple fractions e.g. $1 / 2$ of $6=3$ and recognise the equivalence of two quarters and one half. <br> Measure: Length, Capacity and Mass <br> Choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ) and mass ( $\mathrm{kg} / \mathrm{g}$ ); to the nearest appropriate unit, using rulers, scales. <br> Choose and use appropriate standard units to estimate and measure temperature ( ${ }^{\circ} \mathrm{C}$ ) and capacity (litres/ml) using thermometers and measuring vessels. <br> Compare and order lengths, mass, volume/capacity and record the results using $>,<$ and $=$. |


|  | objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods. <br> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 . <br> Add numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers. <br> Subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers. <br> Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. | multiplication and division facts, including problems in contexts. <br> Measure: Money <br> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. <br> Find different combinations of coins that equal the same amounts of money. <br> Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. <br> Statistics <br> Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. <br> Ask and answer simple questions by counting the number of objects in each category and | Review key learning - review of calculations, place value and operations. <br> Time - extend from 15 minute intervals to 5 minute intervals. |
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|  |  | Compare and sequence intervals of time. <br> 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. <br> Know the number of minutes in an hour and the number of hours in a day. <br> Fractions <br> Recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity. <br> Write simple fractions e.g. $1 / 2$ of $6=3$ and recognise the equivalence of two quarters and one half. |  |
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|  | Focus on the composition of numbers within 10, with a particular emphasis on the composition of numbers 6, 7, 8 and 9 as ' 5 and a bit', as well as exploring the composition of numbers 5 and 6 in-depth. <br> Explore the composition of odd and even numbers, identifying that even numbers are made of $2 s$ and odd numbers have 'an extra 1' - they will link this to the 'shape' of these numbers. <br> Addition and Subtraction/Numb er Facts <br> Llink their growing understanding of the composition of numbers within 10 | Use the inequality symbols to create expressions, e.g. 7 $>2$, and use the language of 'greater than' and 'less than'. <br> Draw on their knowledge of number bonds to answer questions in the form: True or false? $5+3>7$ <br> Addition and Subtraction/Numb er Facts <br> Continue to practise recalling additive facts for numbers within 10, using a range of equations, games and picture problems. | including <br> identifying a missing 'part' and relating this to subtraction equations. <br> Review <br> strategies for adding 1 and 2 to odd and even numbers to subtraction facts presented in different ways. <br> Apply their knowledge of the composition of 11-19 to calculations in which 10 is a part. <br> Apply their knowledge of composition to facts involving 3 addends. | numbers within 20, including questions which use the symbols ,$+<,>$, or $=$ <br> Addition and Subtraction/Nu mber Facts <br> Draw on their knowledge of the linear number system and apply this to calculations involving 1 more and 1 less, and pairs of numbers with a difference of 1 . <br> Use their understanding of the composition of odd and even numbers to find doubles and near doubles. <br> Apply <br> known facts to calculations involving larger numbers, e.g. $5+$ | $9+6<10+5$ <br> This will help them become fluent in the use of the inequality symbol as well as practising their number bond knowledge. <br> Addition and Subtraction/Number Facts <br> Become fluent in a range of strategies involving calculations within 20, using 'make 10' strategies to add, and subtracting through the tens boundary. <br> Practise recalling number bonds through a range of activities and games which will encourage them to reason about sums and differences. |  |
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|  | to the related additive facts, including adding 2 to an odd or even number. <br> Practise recalling facts in a variety of ways, including through solving simple picture problems and completing equations with a missing sum or addend. | $2,15+2,25+2$. |  |
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| Year 3 | Place Value and Number <br> Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. <br> Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). <br> Compare and order numbers up to 1000. <br> Identify, represent and estimate numbers using different strategies. | Multiplication and Division <br> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. <br> Write and calculate mathematical statements for multiplication using the multiplication tables for Year 3, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. | Fractions <br> 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 . <br> Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. <br> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. |




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| Year 4 | Place Value and Number <br> Count in multiples of $6,7,9,25$ and 1000. <br> Find 1000 more or less than a given number. <br> Count backwards through 0 to include negative numbers. <br> Recognise the place value of each digit of a 4 digit number (thousands, hundreds, tens and units). <br> Order and compare numbers beyond 1000. <br> Identify, represent and estimate numbers, using different representations. <br> Round numbers to the nearest 10,100 or 1000. <br> Solve number and practical problems that involve large positive numbers. | Multiplication and Division <br> Unit continued from Autumn 1. Likely to focus upon multiplying two-digit and three digit numbers by a one-digit number using a formal written method. <br> Measure - Area <br> Find the area of rectilinear shapes by counting squares. <br> Find the area of rectilinear shapes by counting squares. <br> Fractions <br> Recognise and show, using diagrams, families of common equivalent fractions. <br> Count up and down in hundredths and know that dividing an object by 100 creates | Decimals <br> Find and write decimal equivalents using tenths and hundredths. <br> Find and write decimal equivalents of $1 / 4,1 / 2$ and $3 / 4$. <br> Divide one and two digit numbers by 10 and 100 and can explain the effect this has on place value. <br> Round decimals using tenths to the nearest whole number. <br> Compare numbers with the same number of decimal places (up to two decimal places). <br> Solve simple money and measure problems involving decimals with up to two decimal places. <br> Geometry - Property of Shape |



| Use factor pairs in mental calculations. <br> Multiply two digit and three digit numbers by a one digit number using a formal written method. <br> Solve problems involving multiplication and addition, including using the distributive law e.g. $3 \times(12+$ 14) $=3 \times 12+3 \times 14$. |  | Plot points given and draw sides to complete a given polygon. <br> Statistics <br> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. <br> Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. <br> Measure <br> Convert different units of measurement e.g. I can convert kilometres into metres or hours into minutes. <br> Estimate, compare and calculate different measures, including money in pounds and pence. <br> Read, write and compare time between analogue and digital 12-hour and 24-hour clocks. |
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|  |  |  | Solve problems where I need to convert units of time such as hours to minutes, minutes to seconds, years to months or weeks to days. |
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| Year 5 | Place Value and Number <br> Read, write, order and compare numbers up to at least 1,000,000 (one million) and say the value of each digit. <br> Use negative numbers in context when looking at temperature or money, counting forwards and backwards through 0 . <br> Keep multiplying a number by 10 or 100 up to $1,000,000$ and count back. <br> Round numbers up to $1,000,000$ to the nearest $10,100,1000,10,000$ or 100,000. <br> Solve number and practical problems that involve ordering and comparing numbers up to 1,000,000, counting | Measure - Area and Perimeter <br> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. <br> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ), square metres $\left(\mathrm{m}^{2}\right)$, and estimate the area of irregular shapes. <br> Fractions <br> Compare and order fractions whose denominators are all multiples of the same number. <br> Find and name equivalent fractions of a given fraction. | Consolidate Fractions, Decimals and Percentages. <br> Geometry: Properties of Shape <br> Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. <br> Draw shapes using given dimensions and angles. <br> State and use properties of a rectangle (including squares) to deduce related facts. <br> Distinguish between regular and irregular polygons, based on using reasoning about equal sides and angles. <br> Use the properties of rectangles to find related facts, missing lengths and missing angles. |


|  | forwards or backwards in steps, negative numbers, and rounding. <br> Read Roman numerals up to 1000 and recognise years written in them. <br> Addition and Subtraction <br> Add and subtract numbers with more than 4 digits using written methods. <br> Use rounding to check answers to calculations and determine levels of accuracy. <br> Solve addition and subtraction problems needing more than one step and can work out which operation and method is the most suitable. <br> Add and subtract numbers mentally with increasingly large numbers. <br> Multiplication and Division <br> Find multiples and factors of a number and can identify factors common to 2 different numbers. | Identify mixed numbers and improper fractions and convert from one to another such as $2 / 5$ $+4 / 5=6 / 5=1$ and $1 / 5$. <br> Add and subtract fractions whose denominators are all multiples of the same number. <br> Multiply proper fractions by whole numbers using objects and pictures. <br> Decimals <br> Read and write decimal numbers as fractions such as $0.71=$ 71/100. <br> Identify and use thousandths and can explain how they relate to tenths and hundredths and their decimal equivalents. <br> Write equivalent fractions of a given fraction including tenths and hundredths. | Estimate and compare acute, obtuse and reflex angles, understanding that angles are measured in degrees. <br> Draw given angles and measure them in degrees. <br> Identify angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ). <br> Identify angles at a point, a whole turn (total $360^{\circ}$ ) and other multiples of 90. <br> Geometry: Position and Direction <br> Identify, describe and represent the position of a shape following a reflection, using mathematical vocabulary to explain this. <br> Identify, describe and represent the position of a shape following a translation using mathematical vocabulary to explain this. <br> Measure |
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|  | Use vocabulary relating to prime numbers, prime factors and composite numbers. <br> Work out if any given number up to 100 is a prime number and can recall prime numbers up to 19. <br> Multiply numbers with up to 4 digits by a 1 or 2 digit number using formal written methods. <br> Divide numbers with up to 4 digits by a 1 digit number, using formal written methods, and can show remainders. Multiply and divide whole and decimal numbers by 10,100 and 1000. <br> Identify and use square numbers and their notation. <br> Identify and use cube numbers and their notation. <br> Solve problems involving multiplication and division, including using factors and multiples, squares and cubes. | Round numbers with two decimal places to the nearest whole number and to 1 decimal place. Read, write, order and compare numbers with up to three decimal places. <br> Solve problems involving numbers with up to three decimal places. <br> Percentages <br> Identify the percent symbol (\%) and how it relates to parts per hundred, hundredths and decimals. <br> Solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5$, $4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 . | Convert between different forms of metric measurement e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre. <br> Understand and compare equivalences between metric units and common imperial units. These might include: inches, pounds or pints. <br> Estimate volume by using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes) and capacity by using water and different containers. <br> Solve problems by converting between units of time. <br> Use addition and subtraction to solve problems involving measure (such as length, mass, volume, money, using decimal notation. |
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|  | Solve problems involving addition, subtraction, multiplication and division, and a combination of these, including understanding the meaning of the equals sign. <br> Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. <br> Statistics <br> Solve comparison, sum and difference problems using information presented in a line graph. <br> Complete, read and interpret information in tables, including timetables. |  |  |
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| Year 6 | Place Value <br> Read, write, order and compare numbers up to $10,000,000$ and determine the value of each digit. | Geometry - Properties of Shape <br> Draw 2-D shapes using given dimensions and angles. | Consolidation <br> Focus to be decided upon each year dependent on the needs of the children. <br> Problem-Solving and Investigations. |



|  | 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. <br> Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where <br> appropriate, interpreting remainders according to context. <br> Perform mental calculations, including with mixed operations and large numbers. <br> Identify common factors, common multiples and prime numbers. <br> Use their knowledge of the order of operations to carry out calculations involving the four operations. <br> Solve problems involving multiplication and division. | Draw and translate simple shapes on the co-ordinates plane, and reflect them in the axes. <br> Ratio and Proportion <br> Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts. <br> Solve problems involving similar shapes, where the scale factor is known or can be found. <br> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. <br> Measure <br> Solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate. |  |
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