| Maths Progression of Skills |  |  |  |  |  |  |  |  |
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| To know and use numbers (understand the number system and how they are used in a wide variety of mathematical ways | NPV -Counting | Say number names in order to from I-20 and then beyond. <br> Count regular and irregular arrangement of objects by, tagging each object with a number word, to 20 (then beyond) <br> Represent objects to 10 using own marks <br> Count actions or sounds to 20 (then beyond) <br> by tagging each object/action with a number word. <br> Subitise small groups of objects. | Count to and across 100, forwards and backwards, beginning with 0 or I, or from any given number <br> Count in multiples of twos, fives and tens | Count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward and backward | Count from 0 in multiples of $4,8,50$ and 100 <br> Count up and down in tenths | Count in multiples of 6,7, <br> 9,25 and 1000 <br> Count backwards through zero to include negative numbers <br> Count up and down in hundredths | Count forwards or backwards in steps of powers of 10 for any given number up to I 000000 <br> Count forwards and backwards in decimal steps | Count forwards or backwards in steps of integers, decimals or powers of 10 for any number |
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|  | NPV -Place Value | Match the number symbol with a <br> group of up to 10 objects. <br> Say the correct number word <br> when I see number symbols 6-10 in <br> various contexts <br> Use a tens frame to organise counting <br> Know that the numbers in the one's | Read and write numbers to 100 in numerals <br> Read and write numbers from I to 20 in numerals and words | Read and write numbers to at least 100 in numerals and in words | Read and write numbers up to 1000 in numerals and in words <br> Read and write numbers with one decimal place | Read and write numbers to at least 10000 <br> Read and write numbers with up to two decimal places | Read and write numbers to at least I 000000 <br> Read and write numbers with up to three decimal places | Read and write numbers up to 10000000 |
|  |  |  | Begin to recognise the place value of numbers beyond 20 (tens and ones) | Recognise the place value of each digit in a two-digit number (tens, ones) | Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) | Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) | Determine the value of each digit in numbers to at least I 000000 | Determine the value of each digit in numbers up to 10000000 |
|  |  |  |  |  | Identify the value of each digit to one decimal place | Identify the value of each digit to two decimal places | Identify the value of each digit to three decimal places | Identify the value of each digit to three decimal places |


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|  |  | column increase in the same way (I-9) for each ten |  | Partition numbers in different ways (for example, $23=20+3$ and $23=10+13)$ | Partition numbers in different ways (for example, $146=100+40$ $+6 \& 146=130+16)$ | Partition numbers in different ways (for example, $2.3=2+0.3$ and $2.3=1+1.3$ ) |  |  |
|  |  |  | Identify and represent numbers using objects and pictorial representations including the number line | Identify, represent and estimate numbers using different representations, including the number line | Identify, represent and estimate numbers using different representations, including the number line | Identify, represent and estimate numbers using different representations, including the number line | Identify, represent and estimate numbers using the number line | Identify, represent and estimate numbers using the number line |
|  | NPV - Comparing and ordering | Compare numbers using appropriate vocabulary, such as 'more than', 'less than', 'equal to'. Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; | Use the language of: equal to, more than, less than (fewer), most, least | Compare and order numbers from 0 up to 100; use <, > and = signs | Compare and order numbers up to 1000 | Order and compare numbers beyond 1000 | Order and compare numbers to at least $1000000$ | Order and compare numbers up to 10000 000 |
|  |  |  |  |  | Compare and order numbers with one decimal place | Order and compare numbers with the same number of decimal places up to two decimal places | Order and compare numbers with up to three decimal places | Order and compare numbers including integers, decimals and negative numbers |
|  |  |  | Given a number, identify one more and one less | Find I or 10 more or less than a given number | Find $I, 10$ or 100 more or less than a given number | Find $0.1,1,10,100$ or 1000 more or less than a given number | Find 0.01, 0.1, I, 10, 100 , 1000 and other powers of 10 more or less than a given number | Find 0.001, 0.01, 0.1, I, 10 and powers of 10 more or less than a given number |
|  | NPV - Rounding, approximation and estimation |  |  | Round numbers to at least 100 to the nearest 10 | Round numbers to at least 1000 to the nearest 10 or 100 | Round any number to the nearest 10,100 or 1000 | Round any number up to I 000000 to the nearest $10,100,1000,10000$ and 100000 | Round any whole number to a required degree of accuracy |
|  |  |  |  |  |  | Round decimals with one decimal place to the nearest whole number | Round decimals with two decimal places to the nearest whole number and to one decimal place | Round decimals with three decimal places to the nearest whole number or one or two decimal places |
|  | NPV - Multiplying by powers of 10 |  |  | Understand the connection between the | Find the effect of multiplying a one- or | Find the effect of dividing a one- or two-digit | Multiply and divide whole numbers and | Multiply and divide numbers by 10,100 and |


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|  |  |  |  | 10 multiplication table and place value | two-digit number by 10 and 100 , identify the value of the digits in the answer | number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths | those involving decimals by 10,100 and 1000 | 1000 giving answers up to three decimal places |
|  | NPV - Negative numbers |  |  |  |  | Count backwards through zero to include negative numbers (see counting) | Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero | Use negative numbers in context, and calculate intervals across zero |
|  | NPV - Sequences and patterns |  | Recognise and create repeating patterns with numbers, objects and shapes <br> Identify odd and even numbers linked to counting in twos from 0 and I | Describe and extend simple sequences involving counting on or back in different steps | Describe and extend number sequences involving counting on or back in different steps | Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps | Describe and extend number sequences including those with multiplication and division steps and those where the step size is a decimal | Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal |
|  | NPV - Roman numerals |  |  |  | Read Roman numerals from I to XII (see time) | Read Roman numerals to IOO (I to C) and know that over time, the numeral system changed to include the concept of zero and place value | Read Roman numerals to 1000 (M) and recognise years written in Roman numerals |  |
|  | NPV - Solving number problems |  | Solve problems and practical problems involving all of the above | Use place value and number facts to solve problems | Solve number problems and practical problems involving these ideas | Solve number and practical problems that involve all of the above and with increasingly large positive numbers. | Solve number problems and practical problems that involve all of the above | Solve number and practical problems that involve all of the above |
| To add and subtract (to understand the concept | Number addition and subtraction Understanding of |  |  | Choose an appropriate strategy to solve a calculation based upon the numbers involved | Choose an appropriate strategy to solve a calculation based upon the numbers involved | Choose an appropriate strategy to solve a calculation based upon the numbers involved | Choose an appropriate strategy to solve a calculation based upon the numbers involved | Choose an appropriate strategy to solve a calculation based upon the numbers involved |


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| and processes of addition and subtraction) | addition and subtraction |  |  | (recall a known fact, calculate mentally, use a jotting) | (recall a known fact, calculate mentally, use a jotting, written method) | (recall a known fact, calculate mentally, use a jotting, written method) | (recall a known fact, calculate mentally, use a jotting, written method) | (recall a known fact, calculate mentally, use a jotting, written method) |
|  |  |  | Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs | Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> Understand subtraction as take away and difference (how many more, how many less/fewer) | Understand and use take away and difference for subtraction, deciding on the most efficient method for the numbers involved, irrespective of context |  |  |  |
|  | Number addition and subtraction Addition and subtraction facts | Compare numbers using appropriate vocabulary, such as 'more than', 'less than', 'equal to'. 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. | Represent and use number bonds and related subtraction facts within 20 | Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Recall and use number bonds for multiples of 5 totalling 60 (to support telling time to nearest 5 minutes) | Recall and use addition and subtraction facts for 100 (multiples of 5 and 10) <br> Derive and use addition and subtraction facts for 100 <br> Derive and use addition and subtraction facts for multiples of 100 totalling 1000 | Recall and use addition and subtraction facts for 100 <br> Recall and use addition and subtraction facts for multiples of 100 totalling 1000 <br> Derive and use addition and subtraction facts for $I$ and 10 (with decimal numbers to one decimal place) | Recall and use addition and subtraction facts for I and IO (with decimal numbers to one decimal place) <br> Derive and use addition and subtraction facts for I (with decimal numbers to two decimal places) | Recall and use addition and subtraction facts for I (with decimal numbers to two decimal places) |
|  | Number addition and subtraction Mental methods |  |  | Select a mental strategy appropriate for the numbers involved in the calculation | Select a mental strategy appropriate for the numbers involved in the calculation | Select a mental strategy appropriate for the numbers involved in the calculation | Select a mental strategy appropriate for the numbers involved in the calculation | Select a mental strategy appropriate for the numbers involved in the calculation |


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|  |  | Understand the 'one more/one less than' relationship between consecutive numbers to 10 <br> To say which number is one more or one less than a given Number from one to 10 | Add and subtract one-digit and two-digit numbers to 20 , including zero (using concrete objects and pictorial representations) | Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a two-digit number and ones <br> - a two-digit number and tens <br> - two two-digit numbers <br> - adding three one-digit numbers | Add and subtract numbers mentally, including: <br> - a three-digit number and ones <br> - a three-digit number and tens <br> - a three-digit number and hundreds | Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place | Add and subtract numbers mentally with increasingly large numbers and decimals to two decimal places | Perform mental calculations, including with mixed operations and large numbers and decimals |
|  | Number addition and subtraction Written methods |  | *Written methods are informal at this stage see mental methods for expectation of calculations | *Written methods are informal at this stage see mental methods for expectation of calculations | Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction where appropriate | Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, including using formal written methods (columnar addition and subtraction) | Add and subtract whole numbers and decimals using formal written methods (columnar addition and subtraction) |
|  | Number addition and subtraction Estimating and checking calculations |  |  | Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | Estimate the answer to a calculation and use inverse operations to check answers | Estimate and use inverse operations to check answers to a calculation | Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy | Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy |
|  | Number addition and subtraction Order of operations |  |  |  |  |  |  | Use their knowledge of the order of operations to carry out calculations involving the four operations |
|  | Number addition and subtraction Solving addition | Solve real work mathematical problems with numbers up | Solve one-step problems that involve | Solve problems with addition and subtraction | Solve problems, including missing number problems, | Solve addition and subtraction two-step | Solve addition and subtraction multi-step | Solve addition and subtraction multi-step |


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|  | and subtraction problems including those with missing numbers | to 10. | addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square-9$ | including those with missing numbers: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental and written methods | using number facts, place value, and more complex addition and subtraction | problems in contexts, deciding which operations and methods to use and why <br> Solve addition and subtraction problems involving missing numbers | problems in contexts, deciding which operations and methods to use and why <br> Solve addition and subtraction problems involving missing numbers | problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division, including those with missing numbers |
| Multiply and divide (understand the concept and processes of multiplication and division) | Number <br> Multiplication and Division Understanding multiplication and division |  |  |  | Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known or related fact, calculate mentally, use a jotting, written method) | Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known or related fact, calculate mentally, use a jotting, written method) | Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known or related fact, calculate mentally, use a jotting, written method) | Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known or related fact, calculate mentally, use a jotting, written method) |
|  |  | Begin to share quantities between 2-3 people to 10 |  | Understand <br> multiplication as repeated addition <br> Understand division as sharing and grouping and that a division calculation can have a remainder <br> Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | Understand that division is the inverse of multiplication and vice versa <br> Understand how multiplication and division statements can be represented using arrays <br> Understand division as sharing and grouping and use each appropriately | Recognise and use factor pairs and commutativity in mental calculations | Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers |  |
|  | Number <br> Multiplication and <br> Division - <br> Multiplication and division facts | Begin to identify evens and odds to 10. <br> Explore and represent patterns |  | Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including | Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables | Recall multiplication and division facts for multiplication tables up to $12 \times 12$ | Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers | Identify common factors, common multiples and prime numbers |



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|  |  |  |  |  | progressing to formal written methods |  | multiplication for two-digit numbers | Multiply one-digit numbers with up to two decimal places by whole numbers |
|  |  |  |  |  | Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers divided by one-digit numbers, progressing to formal written methods | Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context | 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 | 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 <br> Use written division methods in cases where the answer has up to two decimal places |
|  | Number <br> Multiplication and <br> Division - <br> Estimating and <br> checking <br> calculations |  |  |  | Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy | Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy | Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy | Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy |
|  | Number <br> Multiplication and Division - Order of operations |  |  |  |  |  |  | Use their knowledge of the order of operations to carry out calculations involving the four operations |
|  | Number <br> Multiplication and Division - Solving multiplication and division problems |  | Solve one-step problems involving multiplication and division, by calculating the answer using | Solve problems involving multiplication and division (including those with remainders), using materials, arrays, | Solve problems, including missing number problems, involving multiplication and division (and interpreting remainders), | Solve problems involving multiplying and adding, including using the distributive law to multiply two digit | Solve problems involving addition, subtraction, multiplication and division and a combination of these, | Solve problems involving addition, subtraction, multiplication and division |


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|  | including those with missing numbers |  | concrete objects, pictorial representations and arrays with the support of the teacher | repeated addition, mental methods, and multiplication and division facts, including problems in contexts | including positive integer scaling problems and correspondence problems in which $n$ objects are connected to mobjects | numbers by one digit, division (including interpreting remainders), integer scaling problems and harder correspondence problems such as $n$ objects are connected to m objects | 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 |  |
| Use fractions (understandi ng the concept of part and whole and ways of calculating using it) | Fractions - <br> Understanding fractions |  | Understand that a fraction can describe part of a whole Understand that a unit fraction represents one equal part of a whole | Understand and use the terms numerator and denominator <br> Understand that a fraction can describe part of a set <br> Understand that the larger the denominator is, the more pieces it is split into and therefore the smaller each part will be | Show practically or pictorially that a fraction is one whole number divided by another (for example, $\frac{3}{4}$ can be interpreted as $3 \div 4$ ) Understand that finding a fraction of an amount relates to division | Understand that a fraction is one whole number divided by another (for example, $\frac{3}{4}$ can be interpreted as $3 \div$ 4) |  |  |
|  | Fractions - <br> Fractions of objects, shapes and quantities |  | Recognise, find and name a half as one of two equal parts of an object, shape or quantity (including measure) <br> Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity (including measure) | 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 | 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 | Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators | Recognise mixed numbers and improper fractions and convert from one form to the other |  |


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|  |  |  |  |  | Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 | Recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten | Read and write decimal numbers as fractions (e.g. $0.71=\frac{71}{100}$ ) |  |
|  | Fractions - <br> Counting, comparing and ordering fractions |  |  | Count on and back in steps of $\frac{1}{2}$ and $\frac{1}{4}$ | Count on and back in steps of $\frac{1}{2}, \frac{1}{4}$ and $\frac{1}{3}$ | Count on and back in steps of unit fractions | Count on and back in mixed number steps such as $1 \frac{1}{2}$ |  |
|  |  |  |  |  | Compare and order unit fractions and fractions with the same denominators (including on a number line) | Compare and order unit fractions and fractions with the same denominators (including on a number line) (continued from Year 3) | Compare and order fractions whose denominators are all multiples of the same number (including on a number line) | Compare and order fractions, including fractions >1 (including on a number line) |
|  | Fractions Equivalence |  |  | Write simple fractions for example, $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | Recognise and show, using diagrams, equivalent fractions with small denominators | Recognise and show, using diagrams, families of common equivalent fractions | Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths | Use common factors to simplify fractions; use common multiples to express fractions in the same denomination |
|  |  |  |  |  |  | Recognise and write decimal equivalents of any number of tenths or hundredths <br> Recognise and write decimal equivalents to $\frac{1}{4}$ $, \frac{1}{2}, \frac{3}{4}$ | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts |
|  |  |  |  |  |  |  |  | Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) |


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| for a simple fraction (e.g. 3/8) |  |  |  |  |  |  |  |  |
|  | Fractions Calculating with fractions |  |  |  | Add and subtract fractions with the same denominator within one whole (using diagrams) (for example, $\left.\frac{5}{7}+\frac{1}{7}=\frac{6}{7}\right)$ | Add and subtract fractions with the same denominator (using diagrams) | Add and subtract fractions with the same denominator and denominators that are multiples of the same number (using diagrams) <br> Write mathematical statements $>1$ as a mixed number (e.g. $\frac{2}{5}+\frac{4}{5}=\frac{6}{5}=1 \frac{1}{5}$ ) | Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions |
|  |  |  |  |  |  |  | Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams | Multiply simple pairs of proper fractions, writing the answer in its simplest form (using diagrams) $\text { (e.g. } \frac{1}{4} \times \frac{1}{2}=\frac{1}{8} \text { ) }$ |
|  |  |  |  |  |  |  |  | Divide proper fractions by whole numbers (using diagrams) $\text { (e.g. } 1 / 3 \div 2=1 / 6 \text { ) }$ |
|  | Fractions - <br> Percentages |  |  |  |  |  | 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 | Find simple percentages of amounts |



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|  |  |  |  |  |  |  |  | scale factor is known or can be found |
| Use algebra (recognising mathematical properties and relationships using symbolic representatio ns) | Algebra |  |  |  |  |  |  | Express missing number problems algebraically <br> Use simple formulae <br> Generate and describe linear number sequences <br> Find pairs of numbers that satisfy an equation with two unknowns <br> Enumerate possibilities of combinations of two variables |
| Use measures (becoming familiar with a range of measures and devices used for measuring and calculations) | Measurement Length/height |  | Measure and begin to record lengths and heights, using non-standard and then manageable standard units ( $m$ and cm ) within children's range of counting competence | Choose and use appropriate standard units to estimate and measure length/height in any direction $(\mathrm{m} / \mathrm{cm})$ to the nearest appropriate unit using rulers | Measure, add and subtract lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ) | Estimate and calculate lengths | Use, read and write standard units of length to a suitable degree of accuracy | Use, read and write standard units of length using decimal notation to three decimal places |
|  |  | Use comparative language to compare length, weight and capacity | Compare and describe lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) | Compare and order lengths and record the results using >, < and = | Compare lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ) | Compare lengths | Understand and use approximate equivalences between metric and common imperial units such as inches |  |
|  | Measurement - <br> Perimeter |  |  |  | Understand that perimeter is a measure of distance around the boundary of a shape <br> Measure the perimeter of simple 2-D shapes | Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres | Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres | Recognise that shapes with the same areas can have different perimeters and vice versa |



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|  |  |  | Compare and describe capacity and volume (for example, full/empty, more than, less than, half, half full, quarter) | Compare and order volume/capacity and record the results using $>$, < and = | Compare volume/capacity (l/ml) | Compare volume/capacity | Understand and use <br> approximate equivalences between metric and common imperial units such as pints | Compare volume of cubes and cuboids using standard units, including cubic centimetres $\left(\mathrm{cm}^{3}\right)$ and cubic metres ( $\mathrm{m}^{3}$ ) and extending to other units (for example, $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$ ) |
|  | Measurement - <br> Temperature |  |  | Choose and use appropriate standard units to estimate and measure temperature to the nearest degree $\left({ }^{\circ} \mathrm{C}\right)$ using thermometers | Continue to estimate and measure temperature to the nearest degree ( ${ }^{\circ} \mathrm{C}$ ) using thermometers | Order temperatures including those below $0^{\circ} \mathrm{C}$ | Continue to order temperatures including those below $0^{\circ} \mathrm{C}$ | Calculate differences in temperature, including those that involve a positive and negative temperature |
|  | Measurement Conversions |  |  |  |  | Convert between different units of measure (e.g. kilometre to metre; hour to minute) | Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) | 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 three decimal places |
|  |  |  |  |  |  |  |  | Convert between miles and kilometres |
|  | Measurement Time | Describe a sequence of events, real or fictional, using words such as, 'first', 'then...' | Recognise and use language relating to dates, including days of the week, weeks, months and years |  |  |  |  |  |



| Maths Progression of Skills |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Threshold | Strand | EYFS | Year1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  |  |  |  |  |  |  |
|  | Measurement Money |  | Recognise and know the value of different denominations of coins and notes | Recognise and use symbols for pounds ( $£$ ) and pence ( p ) | Continue to recognise and use symbols for pounds ( $($ ) and pence ( $p$ ) and understand that the decimal point separates pounds and pence | Write amounts of money using decimal notation |  |  |
|  |  |  |  | Combine amounts to make a particular value <br> Find different combinations of coins that equal the same amounts of money | Recognise that ten $10 p$ coins are equivalent to $£ 1$ and that each coin is $\frac{1}{10}$ of $\in I$ | Recognise that one hundred Ip coins are equivalent to $£ 1$ and that each coin is $\frac{1}{100}$ of $£ 1$ |  |  |
|  |  |  |  | Add and subtract money of the same unit, including giving change | Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts | Estimate, compare and calculate money in pounds and pence |  |  |
|  | Measurement Solving problems involving money and measures |  | Solve practical problems for: <br> - lengths and heights <br> - mass/weight <br> - capacity and volume <br> - time | Solve simple problems in a practical context involving addition and subtraction of money and measures (including time) | Solve problems involving money and measures and simple problems involving passage of time | Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days and problems involving money and measures | Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation including scaling <br> Solve problems involving converting between units of time | Solve problems involving the calculation and conversion of units of measure (including money and time), using decimal notation up to three decimal places where appropriate |
| Understand the properties of shapes (recognising the names and properties of | Geometry - <br> Properties of Shape | Select, rotate and manipulate shapes in order to develop spatial reasoning skills. <br> Compose and decompose shapes so that children | Recognise and name common 2-D shapes, including rectangles (including squares), circles and triangles | 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 | Draw 2-D shapes and describe them | 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 | Distinguish between regular and irregular polygons based on reasoning about equal sides and angles | Compare and classify geometric shapes based on their properties and sizes <br> Draw 2-D shapes using given dimensions and angles |


| Maths Progression of Skills |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Threshold | Strand | EYFS | Year1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| geometric shapes and angles) |  | recognise a shape can have other shapes within it, just as numbers can. |  |  |  |  |  |  |
|  |  |  |  | circle on a cylinder and a triangle on a pyramid) |  | Complete a simple symmetric figure with respect to a specific line of symmetry |  |  |
|  |  |  |  |  | Identify horizontal and vertical lines and pairs of perpendicular and parallel lines | Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines | Use the properties of rectangles to deduce related facts and find missing lengths and angles | Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |
|  |  |  | Recognise and name common 3-D shapes, including cuboids (including cubes), pyramids and spheres | Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces | Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them | Compare and classify geometric shapes based on their properties and sizes | Identify 3-D shapes, including cubes and other cuboids, from 2-D representations | Recognise, describe and build simple 3-D shapes, including making nets |
|  | Geometry Angles \& Rotation |  | Describe movement, including whole, half, quarter and three-quarter turns | Use mathematical vocabulary to describe movement, including rotation as a turn | Recognise angles as a property of shape or a description of a turn |  |  |  |
|  |  |  |  | Understand the link between rotation and turns in terms of right angles for quarter, half and three- quarter turns (clockwise and anti-clockwise) | 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 acute and obtuse angles and compare and order angles up to two right angles by size | Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> Draw given angles, and measure them in degrees <br> $\left({ }^{\circ}\right)$ <br> Identify: <br> - angles at a point and one whole turn (total $360^{\circ}$ ) <br> - angles at a point on a straight line and $1 / 2$ a | Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles <br> Find unknown angles in any triangles, quadrilaterals, and regular polygons |




