



Maths I Can Statements/Progression Number and Place Value

Reception	<p>Count objects, actions and sounds. Compare numbers. Count beyond ten. Subitise Link the number symbol (numeral) with its cardinal number value. 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.</p>
Year 1	<p>I can count numbers to 10 accurately – forward and backward. I can count similar objects up to 10 with accuracy and fluency. I can write all numbers to 10 with numerals and in words; to count only objects of the same name in a group. I can understand what zero represents and use it when counting. I can compare different sets of objects and say which one has fewer, more or is equal. I can order numbers to 10 and know which number is greater or is lesser in value. I can compare numbers using the terms '1 more' and '1 less'. I can count numbers up to 20. The key strategy is to begin by making 10. I can recognise, read and write numbers up to 20 in words and numerals. I can use the terms 'greater than' or 'less than' to compare numbers within 20. I can arrange numbers up to 20 in ascending and descending order. I can look for patterns with numbers up to 20, focusing on one more and one less than a number. I can use the making 10 strategy to count numbers above 10; to represent numbers on a number line. I can use the ten-frame method of organisation and place-value cards to assist pupils in writing numbers to 40; to encourage multiple ways of counting, including counting by 2, 5 and 10. I can understand that digits represent tens and ones; to represent numbers using Base 10 materials and numbers. I can use place value to compare two or three numbers and determine which number is bigger/smaller; to arrange three numbers in order of size. I can compare numbers using number bonds, 100-squares and number lines to determine how much more/less. I can observe and use number patterns; to see number lines in conjunction with number squares in order to create visual proportionality. I can count in sequences of 10 followed by counting ones; to increase confidence with number lines and Base 10 materials in order to count numbers to 100. I can understand the value of the tens and ones digits in a number; to use multiple methods of representing and constructing a number. I can review and extend skills and strategies related to number comparison; to place numbers in order from smallest to greatest and vice versa. I can see patterns of numbers when increasing or decreasing by 1, 2 or 5; to use a number line, a 100-chart and Base 10 materials to represent numbers.</p>
Year 2	<p>I can count numbers up to 100 using concrete objects: counting up by ones and tens. I can understand each digit in a number has its own value.</p>

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	<p>I can compare numbers using place-value knowledge gained from previous lessons. I can use the number bond strategy to deepen understanding of place value. I can count in ones and tens; to introduce boundary crossing using tens and ones. I can recognise and describe patterns with more complex numbers, in particular 3 and 5. I can use place-value knowledge to think about the effects of each digit in a number.</p>
Year 3	<p>I can learn to count in hundreds and understand the place value. Pupils will also understand how many hundreds are needed to make 1000. I can compose and decompose numbers consisting of hundreds, tens and ones. I can understand the value of each digit in a 3-digit number. I can compare and order numbers. I can count in fifties. I can recognise, describe and continue a number pattern. I can recognise, describe and complete more complicated number patterns. I can count in fours and eights.</p>
Year 4	<p>I can count in hundreds, and twenty-fives. I can count in thousands. I can count in thousands, hundreds, tens and ones. I can use an understanding of place value to count. I can understand place value in a 4-digit number. I can compare and order numbers. I can compare and order 4-digit numbers. I can make number patterns (100, 10, 1 more and less). I can make number patterns (4-digit numbers). I can count in sixes, sevens and nines. I can round numbers to the nearest 1000. I can round numbers to the nearest 10, 100 and 1000. I can round numbers to estimate.</p> <p>Roman Numerals I can write Roman numerals (to 20). I can write Roman numerals to 100.</p>
Year 5	<p>I can read and represent numbers to 100 000. I can read and represent numbers to 1 000 000. I can read and represent numbers to 1 000 000 using number discs. I can compare numbers to 1 000 000 using place value. I can compare numbers to 1 000 000 using pictorial representations and proportionality. I can compare numbers to 1 000 000 from pictorial representations, using lists and number lines. I can make and identify patterns in numbers using knowledge of place value. I can make number patterns that decrease in multiples of 10 000 or 100 000. I can round numbers to the nearest 10 000 using number lines and bar graphs. I can round numbers to the nearest 100 000 using number lines and bar graphs. I can round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines.</p>

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	<p>Roman Numerals</p> <p>I can write Roman numerals to 1000. I can write numbers in their thousands in Roman numerals.</p>
Year 6	<p>I can create and identify numbers to 10 000 000; to write in numerals and words numbers to 10 000 000. I can construct and record numbers to 10 000 000; to recognise the value of digits to 10 000 000. I can recognise and construct numbers to 10 000 000 using an abacus; to recognise the value of digits in numbers to 10 000 000 and write numbers using numerals and words. I can compare numbers to 10 000 000 using place value. I can compare and order numbers to 10 000 000; to create combinations of numbers using a fixed number of digits. I can round numbers to 10 000 000 to the nearest million, hundred thousand and ten thousand. I can round numbers to the nearest appropriate number up to and including millions; to determine when rounding is appropriate and to which value.</p> <p>Negative Numbers</p> <p>I can add and subtract negative numbers using a number line. I can create number stories using negative numbers.</p>

Addition and Subtraction

Reception	
Year 1	<p>I can understand that a number is made up of other numbers; to find as many ways possible to construct a number. I can use number bonds for storytelling. I can add two different numbers within I can add by counting on. I can complete number sentences and gain an understanding of inverse operations. I can make addition stories using correct vocabulary. I can solve addition problems through pictures. I can understand that subtraction can be done by crossing out or taking away. I can subtract using number bonds. I can solve a subtraction equation by counting back, using a number line as support. I can make subtraction sentences. I can solve picture problems involving subtraction. I can solve problems in the context of addition and subtraction and to find the corresponding number families. I can learn to add by counting on from the largest number. I can add to numbers by first making 10 and then adding on the remainder. I can add by separating the ones and ten. This enables pupils to add the sum of the ones to the ten. I can learn how to subtract by counting back from the largest number. I can learn how to subtract by subtracting from only the ones column.</p>

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	<p>I can subtract a certain amount of ones from 10 rather than from the ones, as there are not enough ones.</p> <p>I can go through number facts derived from addition and subtraction sentence</p> <p>I can decide whether addition or subtraction is the most appropriate operation; to use and apply number bonds and visual representations to solve word problems.</p> <p>I can use and apply concepts of how many more and how many fewer/less; to apply number bonds and the guess-and-check method to solve word problems.</p> <p>I can develop number sentences based on word problems; to improve the use of number bonds and one-to-one bar model representations to suit the question.</p> <p>I can use pictorial representations to help solve word problems; to choose the correct operation to solve a word problem.</p> <p>I can use visual representations and patterns to solve word problems; to develop precision in model drawing to recognise similarities and differences.</p> <p>I can apply addition and subtraction to multi-step word problems; to use number bonds to make 10 when adding</p>
Year 2	<p>I can add a 1-digit number to a 2-digit number without regrouping the ones.</p> <p>I can add tens by recognising its relationship to adding ones.</p> <p>I can add 2-digit numbers where one is a multiple of 10.</p> <p>I can add with tens and ones where the ones are both more than zero.</p> <p>I can add 1-digit numbers to a 2-digit number resulting in renaming of ones.</p> <p>I can add two 2-digit numbers where renaming is expected.</p> <p>I can subtract ones from a 2-digit number.</p> <p>I can subtract 2-digit multiples of 10 from 2-digit multiples of 10.</p> <p>I can subtract tens from a 2-digit number with the ones being more than zero.</p> <p>I can subtract a 2-digit number by another 2-digit number.</p> <p>I can subtract a 2-digit number by a 1-digit number with renaming.</p> <p>I can subtract a 2-digit number by another 2-digit number where renaming has to occur.</p> <p>I can add three 1-digit numbers.</p>
Year 3	<p>I can understand the commutative law of addition and the corresponding addition and subtraction facts.</p> <p>I can add a 3-digit number to a 1-digit number with no regrouping or renaming.</p> <p>I can add a 3-digit number to a multiple of 10 (2-digit number) without regrouping or renaming.</p> <p>I can add multiples of 100 to a 3-digit number without regrouping or renaming.</p> <p>I can add two 3-digit numbers without regrouping or renaming; introduction of the column method of addition.</p> <p>I can add a 3-digit number to a 1-digit number, with renaming.</p> <p>I can add with renaming in tens.</p> <p>I can add two 3-digit numbers with renaming the ones.</p> <p>I can add two 3-digit numbers with renaming the tens.</p> <p>I can add with renaming in ones and tens.</p> <p>I can do simple subtraction by taking away a 1-digit number from a 2-digit number without renaming.</p> <p>I can do simple subtraction by taking away a 1-digit number from a 3-digit number without renaming.</p> <p>I can subtract multiples of 10, up to 90, from a 3-digit number.</p> <p>I can subtract hundreds from a 3-digit number and to subtract multiples of 1 and 10 from a 3-digit number.</p> <p>I can understand simple subtraction of a 3-digit number by another 3-digit number using the column method.</p> <p>I can subtract with renaming in tens and ones.</p> <p>I can subtract with renaming hundreds.</p> <p>I can subtract with regrouping tens and hundreds.</p>

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	<p>I can subtract a 3-digit number with zeros.</p> <p>I can solve addition and subtraction problems using the bar model.</p> <p>I can use the bar model to solve problems.</p> <p>I can solve complicated problems involving addition and subtraction using a comparative bar model heuristic.</p> <p>I can solve more complicated problems involving addition and subtraction using a comparative bar model heuristic.</p>
Year 4	<p>I can find totals and sums.</p> <p>I can add without renaming.</p> <p>I can add with renaming (in the ones column).</p> <p>I can add with renaming (in tens and ones).</p> <p>I can add with renaming (in hundreds, tens and ones).</p> <p>I can add using mental strategies (making tens, hundreds and thousands).</p> <p>I can add using mental strategies.</p> <p>I can find the difference.</p> <p>I can subtract without renaming (column subtraction).</p> <p>I can subtract with renaming (in tens and ones).</p> <p>I can subtract with renaming (in hundreds, tens and ones).</p> <p>I can subtract with renaming.</p> <p>I can subtract using mental strategies.</p> <p>I can solve addition and subtraction word problems.</p> <p>I can solve word problems (addition and subtraction).</p> <p>I can solve multi-step word problems.</p>
Year 5	<p>I can add using the 'counting on' strategy with concrete materials and number lines.</p> <p>I can subtract using the 'counting backwards' strategy with concrete materials.</p> <p>I can add numbers within 1 000 000 using rounding and concrete materials.</p> <p>I can use addition and subtraction to solve comparison problems with numbers to 1 000 000.</p> <p>I can add numbers within 1 000 000 using the column method of addition.</p> <p>I can subtract using the column method, number bonds and number discs using numbers to 1 000 000.</p> <p>I can add and subtract using number bonds as a key strategy using numbers within 1 000 000.</p> <p>I can consolidate and refine addition skills and place-value knowledge to solve addition problems.</p> <p>I can subtract numbers to 1 000 000 using concrete materials, the column method and number bonds.</p> <p>I can consolidate and refine subtraction skills and place-value knowledge to solve subtraction problems.</p> <p>I can consolidate and refine subtraction skills and place-value knowledge to solve subtraction problems.</p>
Year 6	See "Four Operations"
<u>Multiplication and Division</u>	
Reception	
Year 1	<p>I can identify equal groupings as the first step in multiplying; to reinforce the idea that the arrangement of objects does not impact on the number of objects.</p> <p>I can understand we can count groups of the same quantity more efficiently; to find multiple ways of counting groups of the same quantity.</p>

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	<p>I can organise objects into equal rows in order to begin counting equal numbers efficiently.</p> <p>I can understand that doubling is creating an identical number to the one you started with; to understand that doubling is the same as saying two groups of the same amount.</p> <p>I can solve word problems using equal groupings as the basis for multiplication</p> <p>I can understand how to divide even numbers into equal groups using concrete materials; to determine how many groups will be created from sharing equally.</p> <p>I can understand how to divide even numbers equally into groups; to determine how many objects will be included in each group in order to share equally.</p>
Year 2	<p>I can realise that multiplication is the same as repeated addition with equal groups.</p> <p>I can focus on understanding and learning the 2 times table.</p> <p>I can use concrete materials and pictorial representations to multiply by 2.</p> <p>I can cover the basics of the 5 times table and to highlight multiplication visually as equal groups.</p> <p>I can recall and use the 5 times table.</p> <p>I can introduce the 10 times table by focusing on the numbers found in the 10 times table.</p> <p>I can look at the 10 times table in more detail by looking at patterns and relationships.</p> <p>I can investigate links between the 2, 5 and 10 times tables. I can understand commutative law.</p> <p>I can use knowledge of the 2, 5 and 10 times tables to further investigate commutative law.</p> <p>I can use the 2, 5 and 10 times tables to solve word problems.</p> <p>I can understand that grouping is a way of dividing.</p> <p>I can divide by sharing an amount.</p> <p>I can divide by 2. The two strategies used here are splitting into groups of x and splitting into equal groups of many.</p> <p>I can divide by 5 and identify links with multiplying by 5.</p> <p>I can divide by 10 and identify links with multiplying by 10.</p> <p>I can use multiplication and division skills to identify family facts in a number sentence.</p> <p>I can understand and solve word problems which require the use of the multiplication and division skills covered in this chapter.</p> <p>I can link whether odd or even numbers can be divisible by 2, 5 or 10.</p> <p>I can use multiplication and division knowledge in problem solving and to create equations from questions.</p>
Year 3	<p>I can multiply by 3.</p> <p>I can multiply by 3 using relational properties.</p> <p>I can multiply by 4.</p> <p>I can multiply by 4 and 8.</p> <p>I can multiply by 8; to use commutative law to multiply.</p> <p>I can multiply by 8.</p> <p>I can divide by 3.</p> <p>I can divide by 4.</p> <p>I can find relationships between multiplication and division.</p> <p>I can divide by 4 and 8.</p> <p>I can solve word problems with multiplication.</p> <p>I can solve word problems that involve division.</p> <p>I can solve more word problems involving multiplication and division using the bar model heuristic.</p> <p>I can multiply multiples of 10 by a 1-digit number.</p>

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	<p>I can multiply any 2-digit number by a 1-digit number. I can multiply more 2-digit numbers. I can multiply with regrouping. I can understand simple division of a 2-digit number by a 1-digit number. I can divide where there is a need to regroup. I can use long division to divide. I can solve word problems that involve multiplication. I can solve word problems involving division. I can solve more challenging word problems</p>
<p>Year 4</p>	<p>I can multiply by 6. I can multiply by 7. I can multiply by 9. I can multiply by 9 (relational understanding). I can multiply by 11. I can multiply by 12. I can divide by 6. I can divide by 7. I can divide by 9. I can multiply and divide by 11 and 12. I can divide with remainders. I can solve word problems involving multiplication and division. I can solve problems involving multiplication and division. I can solve multi-step problems (in the context of measures). I can solve problems involving multiplication and division (all possibilities). I can solve problems involving multiplication and division (multi-step). I can solve problems involving multiplication and division (scaling/comparison).</p> <p>I can multiply by 0 and 1. I can divide by 1. I can understand commutativity. I can multiply three numbers. I can multiply with multiples of 10. I can multiply 2-digit numbers. I can multiply 2-digit numbers with renaming. I can multiply multiples of 100. I can multiply 3-digit numbers. I can multiply 3-digit numbers (renaming). I can divide 2-digit numbers. I can divide 2-digit numbers with remainders. I can divide 3-digit numbers. I can divide 3-digit numbers with remainders. I can solve multiplication and division word problems.</p>

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	I can solve multiplication and division word problems (multi-step).
Year 5	<p>I can consolidate and review multiplication; to find the result of multiplying by a number.</p> <p>I can consolidate and review multiplication; to find the numbers we can multiply by to get a number.</p> <p>I can define and find common factors of numbers to 100.</p> <p>I can identify and name the prime numbers; to recognise prime numbers as numbers that only have 2 factors.</p> <p>I can define and determine prime numbers to 100.</p> <p>I can create and determine square and cubed numbers.</p> <p>I can multiply 1- and 2-digit numbers by 10, 100 and 1000.</p> <p>I can multiply 2- and 3-digit numbers by a 1-digit number using multiple strategies.</p> <p>I can multiply 4-digit numbers by 1-digit numbers.</p> <p>I can multiply 4-digit numbers by 1-digit numbers with regrouping, using a variety of strategies.</p> <p>I can multiply a 4-digit number by a 1-digit number, with regrouping from the ones, tens and hundreds, using multiple methods.</p> <p>I can multiply 2-digit numbers by 2-digit numbers using multiple methods.</p> <p>I can multiply a 2-digit number by a 2-digit number using multiple methods, including the grid method, number bonds and column method, with regrouping.</p> <p>I can multiply a 3-digit number by a 2-digit number, with the grid method and column method as key strategies.</p> <p>I can multiply a 3-digit number by a 2-digit number with regrouping, using the column method as the key strategy.</p> <p>I can find thousands, hundreds and tens in a 4-digit number using concrete materials.</p> <p>I can divide 3- and 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods.</p> <p>I can divide 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods.</p> <p>I can divide 3-digit numbers by 1-digit numbers, using long division, short division and mental methods, that give rise to remainders.</p>
Year 6	See "Four Operations"
<h2><u>Four Operations</u></h2>	
Year 6	<p>I can use multiple operations and create expressions from a picture; to use the order of operations to solve expressions.</p> <p>I can create and solve expressions using the four operations.</p> <p>I can multiply numbers by multiples of 10; to use number bonds as a key strategy in multiplication.</p> <p>I can multiply 3- and 4-digit numbers by 2-digit numbers without regrouping or renaming; to use both number bonds and the column method as key strategies.</p> <p>I can multiply 3- and 4-digit numbers by 2-digit numbers without regrouping or renaming; to use both number bonds and the column method as key strategies.</p> <p>I can multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming; to use number bonds and pattern recognition as key strategies for multiplication.</p> <p>I can multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming; to use number bonds and the column method as key strategies.</p> <p>I can estimate products of multiplying 3- and 4-digit numbers by a 2-digit numbers; to use knowledge of multiplication to create specific products.</p> <p>I can divide 3-digit numbers by 2-digit numbers using a variety of strategies; to use number bonds, long division and bar models to facilitate division by 2-digit numbers.</p>

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	<p>I can divide 4-digit numbers by 2-digit numbers; to use number bonds and long division as the key strategies.</p> <p>I can divide 4-digit numbers by 2-digit numbers using a variety of methods; to use number bonds, long and short division as key methods.</p> <p>I can divide 3-digit numbers by 2-digit numbers giving rise to remainders; to use number bonds and long and short division as key strategies to solve division problems.</p> <p>I can divide 4-digit numbers by 2-digit numbers giving rise to a remainder; to represent the remainder as part of a whole amount of money or decimal</p> <p>I can use the bar model heuristic to solve word problems involving multiplication and division.</p> <p>I can solve word problems using division as the main strategy; to use pictorial representations to support word problems.</p> <p>I can solve word problems involving multiple operations, including multiplication and division.</p> <p>I can find common multiples in real-life situations; to use common multiples in tandem with knowledge of time.</p> <p>I can use common multiples to solve problems; to organise mathematical thinking into tables and lists.</p> <p>I can find the largest common factor of 3-digit numbers; to use multiplication and division to find largest common factors.</p> <p>I can find common factors using concrete materials.</p> <p>I can use prime numbers to create other numbers; to explore prime numbers above 100.</p> <p>I can explore prime numbers using concrete materials; to identify prime numbers using multiplication or division</p>
<h2><u>Ratio and Proportion</u></h2>	
<p>Year 6</p>	<p>I can use ratios and fractions to compare objects; to find the relationship between ratios, percentages and fractions.</p> <p>I can determine the ratio of a quantity using concrete materials; to simplify ratios using concrete materials in addition to division.</p> <p>I can compare more than two quantities using the term 'ratio'; to use bar models to express ratios where there is more than one quantity.</p> <p>I can compare quantity using both fractions and ratios; to use bar model diagrams to represent ratios.</p> <p>I can compare quantities using bar models and common factors; to use multiplication and division to simplify ratios.</p> <p>I can compare numbers using ratios; to make decisions about simplifying ratios using division.</p> <p>I can solve word problems using a variety of heuristics including guess-and-check and bar models; to apply knowledge of ratios to word problems.</p> <p>I can solve word problems using the bar model heuristic; to employ division and multiplication as primary strategies when solving word problems visually.</p> <p>I can apply the guess-and-check and advanced bar model heuristic to ratio word problems.</p>
<h2><u>Algebra</u></h2>	
<p>Year 6</p>	<p>I can determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express a rule using a letter or symbol.</p> <p>I can determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express the relationship between consecutive numbers in terms of a symbol or letter.</p> <p>I can determine a pattern using concrete materials and pictorial representation; to use a table to identify a pattern; to express the relationship between consecutive numbers in terms of a symbol or letter.</p> <p>I can determine a pattern using concrete materials and pictorial representation; to use a table to identify a pattern; to express unknown numbers in terms of a letter or symbol, including using a number before a letter for multiplication.</p>

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	<p>I can use a table to identify a pattern; to write algebraic expressions using each of the four operations.</p> <p>I can use examples to identify rules; to write algebraic expressions using each of the four operations; to evaluate algebraic expressions including the use of inverse operations.</p> <p>I can recognise patterns; to write algebraic expressions with two steps; to evaluate algebraic expressions with two steps.</p> <p>I can recognise patterns; to write and evaluate algebraic expressions with two steps; to write and use formulae.</p> <p>I can use formulae to solve problems; to replace a letter/variable with a number then solve the equation; to use inverse operations to solve equations.</p> <p>I can solve equations; to use equations to find unknown values</p>
<u>Fractions, Decimals and Percentages</u>	
Reception	
Year 1	<p>Fractions</p> <p>I can split an object (shape) into two equal parts; to identify shapes that have been split into two equal parts.</p> <p>I can split an object (shape) into four equal parts; to identify shapes that have been split into four equal parts.</p> <p>I can share and group objects into halves and quarters; to determine half of a number and a quarter of a number.</p>
Year 2	<p>Fractions</p> <p>I can make equal parts from a whole using simple and complex methods.</p> <p>I can show and recognise halves and quarters.</p> <p>I can show and identify more than one quarter using materials and pictures.</p> <p>I can show and identify thirds in shapes; to use the vocabulary 'numerator' and 'denominator' when referring to fractions.</p> <p>I can identify and name fractions by looking at the number of pieces and how many are shaded in.</p> <p>I can recognise equivalent fractions in quarters, thirds and halves.</p> <p>I can compare and order similar fractions by looking at the size of the pieces shaded.</p> <p>I can compare and order fractions with different denominators.</p> <p>I can count the number of wholes and parts to form mixed numbers.</p> <p>I can count in halves and place halves onto a number line using pictures.</p> <p>I can count in quarters and place quarters onto a number line using pictures.</p> <p>I can count in thirds and place thirds onto a number line using pictures.</p> <p>I can find fractions (half) of whole numbers.</p> <p>I can find a fraction (third) of a whole number.</p> <p>I can find a fraction (quarter) of a number.</p> <p>I can find a fraction (half, third, quarter) of a quantity (length).</p>
Year 3	<p>Fractions</p> <p>I can count in tenths; to recognise tenths and be able to determine how many tenths are shaded.</p> <p>I can make number pairs to create 1; to combine fractions to make 1.</p> <p>I can add fractions with the same denominator.</p> <p>I can consolidate adding fractions with the same name; to learn how fractions can add to 1.</p> <p>I can subtract fractions with the same name.</p> <p>I can find equivalent fractions through paper folding and shading.</p> <p>I can find equivalent fractions using paper folding and shading.</p> <p>I can find equivalent fractions; to place fractions on a number line.</p>

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	<p>I can find fractions equivalent to $\frac{1}{2}$; to use pictorial representations and multiplication to show equivalence.</p> <p>I can find equivalent fractions using concrete objects and pictorial representations.</p> <p>I can find equivalent fractions using pictorial representations and multiplication.</p> <p>I can find the simplest fraction using visualisation and concrete materials.</p> <p>I can find the simplest fraction using pictorial representations and division.</p> <p>I can find equivalent fractions using multiplication and division; to determine whether or not a fraction is equivalent.</p> <p>I can compare the fractions $\frac{1}{2}$ and $\frac{1}{4}$ using pictorial representations and concrete materials.</p> <p>I can compare fractions using pictorial representations; to understand the numerical nature of the numerator.</p> <p>I can compare fractions with different names (denominators) using pictorial representations and number lines.</p> <p>I can add fractions using pictorial representations; to simplify fractions after adding them.</p> <p>I can subtract fractions using pictorial representations; to simplify fractions after they have been subtracted.</p> <p>I can subtract fractions from a whole amount; to use pictorial representations of whole numbers to help subtract fractions.</p> <p>I can determine a fraction of a whole number using pictorial representations.</p> <p>I can find a fraction of a whole number using pictorial representations, multiplication and concrete objects.</p> <p>I can consolidate finding the fraction of a whole number.</p> <p>I can divide 1 between more than 1; to share 1 whole equally between more than 1.</p> <p>I can share more than 1 using pictorial representations and division.</p> <p>I can share more than 1; to recognise a whole and its parts using pictures and number lines.</p> <p>I can show more than 1 whole after sharing a number of items equally; to use pictorial representations to share whole items equally.</p> <p>I can apply bar modelling to represent fractions in word problems; to solve word problems using pictorial representations and abstract methods.</p> <p>I can use bar models to solve word problems involving the fraction $\frac{1}{2}$.</p> <p>I can use bar models to solve word problems involving the fractions $\frac{1}{3}$ and $\frac{1}{5}$.</p>
<p>Year 4</p>	<p>Fractions</p> <p>I can count in hundredths.</p> <p>I can write mixed number fractions.</p> <p>I can show mixed number fractions on a number line.</p> <p>I can find equivalent fractions.</p> <p>I can find equivalent fractions (further practise).</p> <p>I can simplify mixed number fractions.</p> <p>I can simplify improper fractions.</p> <p>I can add fractions.</p> <p>I can add fractions (recording answers as a mixed number).</p> <p>I can add fractions (simplest form).</p> <p>I can subtract fractions.</p> <p>I can subtract fractions (equivalence).</p> <p>I can solve word problems.</p> <p>Decimals</p> <p>I can record tenths.</p> <p>I can record in tenths.</p> <p>I can record in tenths (in different ways).</p> <p>I can write hundredths.</p>

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	<p>I can write hundredths. I can write hundredths (in different ways). I can record hundredths. I can write decimal numbers. I can compare and order decimal numbers. I can create number sequences. I can round decimal numbers. I can write fractions as decimal numbers. I can divide whole numbers by 10. I can divide whole numbers by 100</p>
<p>Year 5</p>	<p>Fractions</p> <p>I can divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers. I can write improper fractions and mixed numbers using a number line and pictorial methods. I can find equivalent fractions using pictorial methods. I can compare and order fractions using the pictorial method. I can compare and order improper fractions using the pictorial method. I can compare mixed numbers using pictorial representations; to find common denominators where one fraction is already the common denominator for all fractions in the question. I can make number pairs (number bonds) with fractions with different denominators. I can add unlike fractions by finding a common denominator using pictorial methods. I can add together unlike fractions where the sum is greater than 1, creating mixed numbers or improper fractions. I can add unlike fractions which create improper fractions and mixed numbers that give rise to simplification. I can subtract fractions with different denominators; to subtract fractions from whole numbers. I can subtract fractions where the denominators are not the same; to use bar models as a key strategy for subtracting fractions. I can subtract fractions and mixed numbers from mixed numbers with different denominators. I can multiply fractions by whole numbers creating other fractions, mixed numbers or improper fractions. I can multiply fractions by whole numbers where the product is an improper fraction or mixed number. I can multiply mixed numbers by whole numbers, creating larger mixed numbers. I can multiply mixed numbers by whole numbers in multi-step word problems.</p> <p>Decimals</p> <p>I can write decimal numbers. I can read and write decimals. I can compare tenths and hundredths written as decimals. I can order and compare decimals. I can compare and order decimals of amounts. I can write fractions as decimals. I can add and subtract amounts in decimals. I can add and subtract decimals; to add and subtract amounts in pounds and pence. I can add and subtract amounts in pounds and pence. I can add and subtract decimals; to add and subtract amounts in pounds and pence. I can add and subtract decimals to find the smallest possible sum and difference.</p>

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	<p>I can add and subtract decimals; to find number pairs that add up to 1. I can add and subtract the perimeter of an object using decimals. I can round decimals to the nearest whole number; to round numbers to nearest tenth</p> <p>Percentage I can compare quantities; to compare fractions, decimals and percentages; to convert fractions to decimals and percentages. I can convert values of an amount into percentages; to convert fractions into percentages.</p>
<p>Year 6</p>	<p>I can use concrete materials to simplify fractions; to recognise equivalence in fractions to $\frac{1}{4}$. I can simplify fractions using division and common factors; to represent fractions using concrete materials and pictorial representations. I can compare fractions and place them in order from smallest to largest. I can compare and order fractions by finding common denominators. I can compare and order fractions using common factors. Adding and subtracting fractions with different denominators; using pictorial representations to compare fractions and add/subtract. I can add and subtract fractions of different denominators; to develop questions and word problems based on the information provided. I can add and subtract fractions with different denominators. I can add and subtract mixed numbers, including fractions with different denominators; to subtract from the whole and add the remainder back on. I can add and subtract fractions with different denominators; to add and subtract mixed numbers. I can multiply fractions using pictorial representations and abstract methods. I can determine if the commutative law applies to fractions; to multiply fractions using concrete materials and pictorial representations. I can use concrete materials to understand and solve the multiplication of fractions; to simplify equations using pattern blocks. I can divide a fraction by a whole number; to use pictorial representation to divide whole numbers into fractions. I can divide fractions by whole numbers using concrete materials and pictorial representations; to divide fractions when the numerator and divisor are not easily divisible. I can divide fractions by a whole number; to use pictorial representations to support division</p> <p>Decimals I can read and write decimals to thousandths; to use concrete materials to represent decimals. I can divide whole numbers by larger whole numbers; to use Base 10 materials to represent tenths, hundredths and thousandths. I can divide whole numbers that give rise to decimals; to calculate decimal fraction equivalents using long division. I can convert fractions into decimals using bar models and long division. I can write fractions as decimals; to use long division as the key strategy for turning fractions into decimals. I can multiply decimals by whole numbers using partitioning or the worded method to help find the solution. I can multiply whole numbers that include a decimal by other whole numbers; to use partitioning and the worded method as key strategies. I can multiply decimals by whole numbers, including regrouping and renaming. I can multiply decimals by whole numbers using a variety of methods; to use the heuristic 'making a list' to help solve a problem. I can divide decimals using number bonds and number discs as the key strategies. I can divide decimals using bar models, number bonds and long division as key strategies, including regrouping and renaming. I can multiply decimals by a 2-digit whole number using number discs and the column method. I can divide decimals by 2-digit numbers using number bonds and the worded method. I can divide decimals by 2-digit whole numbers using number bonds and the worded method.</p>

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	<p>Percentage I can find the percentage of a whole number using division and multiplication; to use bar modelling as a pictorial approach to calculating percentage. I can find the percentage of a quantity; to use bar model diagrams to support the division and multiplication of numbers towards the percentage. I can find the percentage change in an amount over time; to calculate the percentage change where the number gives rise to a decimal. I can use percentage, bar models and fractions to compare amounts.</p>
<p><u>Measures</u></p>	
Reception	Compare length, weight and capacity.
Year 1	<p>Height and Length I can compare height and length by using key terminology. I can measure objects using other items, such as pencils or books. I can measure items using other things - parts of the body in particular. I can introduce the concept of using rulers for measuring.</p> <p>Time I can develop familiarity with the analogue clock, including the minute and hour hands; to tell time to the hour on an analogue clock. I can improve familiarity with the analogue clock; to tell time to the half hour using the term 'half past.' I can sequence events in order of time; to use the terms 'next', 'before' and 'after' to describe the order of events. I can estimate an amount of time using seconds, minutes and hours. I can use the terms 'quicker', 'slower', 'earlier' and 'later' when comparing time. I can learn the days of the week and the months of the year and to be able to put them in the correct order.</p> <p>Money I can recognise coins and determine their value using size, colour, markings and shape. I can recognise notes and determine their value using colour and markings.</p> <p>Volume and Capacity I can compare volume and capacity using the terms 'more than' and 'less than', 'full' and 'empty'. I can find the volume and capacity of a container using non-standard ones. I can describe volume using the terms 'half' and 'quarter'</p> <p>Mass I can compare the mass of objects using the terms 'heavy' and 'light', 'heavier than', 'lighter than' and 'as heavy as'. I can find the mass of an object using non-standard ones; to use visualisation skills to estimate the number of ones</p>
Year 2	<p>Length I can measure length in metres.</p>

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I can measure length in centimetres.
I can compare length for objects using 'greater than' and 'less than' symbols.
I can compare different lengths using centimetres as the unit of measure.
I can compare and measure various line lengths: both straight and curvy.
I can solve problems involving measurement in the context of word problems.
I can solve addition and multiplication word problems involving measurement.
I can solve addition and division word problems involving measurement.

Mass

I can understand that mass is measured in kilograms and by using weighing scales.
I can measure mass in grams and to understand that it is a smaller unit of measure than a kilogram.
I can measure mass accurately in grams using weighing scales.
I can compare the mass of two different objects accurately.
I can compare the mass of three objects and use the appropriate vocabulary.
I can solve word problems in the context of mass.
I can solve word problems involving mass.

Temperature

I can accurately read temperature in Celsius.
I can estimate temperature and to read thermometers to confirm the estimate

Money

I can identify standard UK coins and notes and write their names.
I can count notes in sequences of 5 and 10; to recognise the value of notes by appearance.
I can count coins in sequences of their value; to recognise the value of coins by appearance.
I can represent amounts of money using coins and notes; to count coins and notes using their denominations.
I can create equal amounts of money using different coins.
I can exchange denominations of money for different coins.
I can compare different amounts of money using coins.
I can add money together to determine the total amount.
I can calculate change from £100 or less; to use the bar model approach to represent amounts of money.
I can solve more complex word problems using bar modelling as a primary method

Time

I can tell and write time to 5-minute intervals.
I can tell time to 5-minute intervals and to the hour.
I can sequence events of the day by looking at analogue clocks and pictures.
I can draw hands on an analogue clock to show the correct time.
I can find the duration of time using an analogue clock in 30- and 60-minute intervals.
I can find the duration of time to 5-minute intervals.
I can find the ending of a duration of time from different 5-minute starting points.
I can find the ending time in intervals of 5 minutes from delayed starts.

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	<p>I can find the starting time from 30-minute and 1-hour interval durations. I can find the start of multiple durations of time using a common end time. I can compare durations of time from the least amount to the most amount of time and vice versa.</p> <p>Volume and Capacity I can compare volume in different-sized containers using the terms 'greater than,' 'less than,' 'greatest' and 'least.' I can compare the volume of different containers using non-standard units. I can measure volume using litres and determine whether an amount is 'more than,' 'less than' or 'equal to' a litre. I can measure volume using millilitres and litres; to determine how many ml there are in 1 l. I can solve word problems involving bar models with litres as the standard unit. I can solve word problems using ml and l, including problems involving difference. I can solve word problems involving volume and multiplication.</p>
<p>Year 3</p>	<p>Length I can use metres and centimetres to measure objects. I can write length in centimetres only by converting metres to centimetres. I can convert kilometres to metres. I can convert length from metres to kilometres and metres. I can compare two lengths. I can solve measurement-related word problems. I can solve other word problems. I can solve word problems further, involving multiplication. I can solve word problems associated with length using division. I can solve more challenging word problems.</p> <p>Mass I can measure mass using weighing scales and compare the mass of objects using grams and kilograms. I can use weighing scales to measure mass when the mass is between multiples of 100 g. I can read values on a scale which are 1 kg or more. I can weigh heavier items where the markers in the scales represent 200 g each. I can solve word problems relating to mass with addition and subtraction. I can solve word problems relating to mass using multiplication. I can solve word problems relating to mass using division.</p> <p>Volume and Capacity I can measure volume in millilitres. I can measure capacity in millilitres. I can measure volume using millilitres and litres. I can measure volume in millilitres and litres from a 'homemade' bottle with markings. I can measure volume using millilitres and litres in comparison to 1 l. I can measure larger capacity in litres and millilitres. I can solve basic word problems related to volume. I can solve more word problems.</p>

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I can solve word problems through division.
I can solve two-step word problems.

Money

I can consolidate previous learning about denominations of both notes and coins; to use simple addition to count amounts of money.
I can name amounts of money including coins above 100p; to regroup and rename 100p as £1 as a key strategy.
I can find multiple ways of showing an amount of money.
I can add money by adding together the pounds and pence separately.
I can add amounts of money together using different methods; to consolidate the addition of pounds and pence separately.
I can consolidate 'making a pound' as a strategy for adding amounts of money where the coins equal more than 99p.
I can learn the 'make a pound' strategy with number bond diagrams; to consolidate the strategies associated with the addition of money.
I can use multiple methods for subtracting amounts of money, including concrete materials and the column method.
I can use visual comparison to subtract amounts of money; to consolidate column subtraction where there is no regrouping of pence required.
I can use number bonds to subtract amounts of money; to develop number sense through decision making.
I can use number bonds as the primary strategy for subtracting amounts of money; to split pounds and pence simultaneously when subtracting amounts of money.
I can learn the 'counting on' strategy for calculating change; to consolidate the number bonds strategy for calculating change.
I can solve word problems involving money using bar modelling as the key strategy; to learn how to use comparative models where pupils are solving by seeing the smaller amount inside of the larger amount.
I can use part-whole bar models to represent word problems; to apply addition and subtraction strategies to solve word problems.

Time

I can use the terms 'a.m.' and 'p.m.' correctly to identify morning or afternoon/evening.
I can learn to tell time to the minute; to understand the relationship between the minute hand and hour hand.
I can consolidate and apply a variety of vocabulary used to express the time.
I can compare analogue and digital time; to represent time using both analogue and digital methods.
I can tell time before the hour using the hour and minute hands.
I can learn to tell time using 24-hour notation; to use analogue time and 24-hour notation interchangeably.
I can tell the time on an analogue clock using Roman numerals.
I can measure time in seconds and milliseconds.
I can measure time in seconds using a stopwatch; to consolidate previous learning about seconds.
I can consolidate measuring time in seconds; to conduct a time experiment using seconds.
I can measure time in hours using an analogue clock.
I can consolidate the measurement of time in hours.
I can measure time in hours using analogue clocks and timelines; to count backwards in time by the hour.
I can measure the passage of time in minutes using an analogue clock and a timeline.
I can measure time to the minute when it crosses into the next hour; to use number bonds to calculate the passage of time.
I can measure time in minutes, counting backwards to determine the starting point; to use number bonds and timelines to calculate the passage of time.
I can determine how many seconds are in a minute; to use multiplication to calculate the number of seconds in a number of minutes.
I can convert seconds into minutes using number bonds.
I can calculate the number of days in a month; to learn which months have 31, 30 and 28/29 days.

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	<p>I can find the duration of days for different activities.</p> <p>Perimeter I can determine the perimeter of basic shapes; to use grid paper to measure the perimeter of a shape. I can measure the perimeter of a shape using 1 cm grid paper. I can determine the perimeter of different shapes; to create shapes with a specific perimeter. I can find the perimeter of shapes using 2 cm grids; to identify mistakes in others' work. I can calculate the perimeter of a shape using a ruler to measure the side lengths. I can calculate the perimeter of a rectangle using multiplication and addition. I can calculate the perimeter of a square using addition and multiplication; to calculate the perimeter of rectangles and irregular shapes by adding up the length of each side. I can consolidate learning about perimeter using practical word problems; to calculate the perimeter of a rectangle using properties of shapes. I can calculate the perimeter of a square and a rectangle using information previously learned about the properties of shapes. I can calculate the perimeter of a rectangle when a square piece has been removed; to determine the lengths of sides that are not marked based on information about the piece removed.</p>
<p>Year 4</p>	<p>Time I can tell the time on a 24-hour clock. I can convert between minutes and seconds. I can convert between hours and minutes. I can solve time problems. I can convert between units of time. I can solve word problems (duration).</p> <p>Money I can record amounts of money. I can compare total amounts of money. I can round to the nearest pound (whole number). I can solve money problems (addition and subtraction). I can solve money problems (multiplication). I can solve money problems (comparison). I can estimate amounts of money</p> <p>Mass I can measure mass. I can measure mass. I can convert units of mass. I can measure volume. I can measure volume. I can convert units of volume.</p> <p>Length I can measure height.</p>

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	<p>I can measure length. I can convert units of length. I can convert units of length.</p> <p>Perimeter I can measure perimeter in centimetres and millimetres. I can solve problems in measurement (reading scales).</p> <p>Area I can find area (by measuring surface coverage). I can measure area. I can measure area (counting squares). I can measure area (counting squares and half squares). I can measure area (using multiplication). I can measure area (shapes in different orientations).</p>
<p>Year 5</p>	<p>Length I can convert units of length. I can convert units of length, including centimetres and metres. I can solve problems by converting units of length. I can convert units of mass. I can convert units of mass, including grams into kilograms. I can convert units of mass, including kilograms and pounds.</p> <p>Time I can convert units of time. I can convert units of time from days into weeks and months. I can solve problems by converting units of time.</p> <p>Temperature I can read the temperature on a thermometer</p> <p>Perimeter I can find the perimeter of shapes. I can find shapes with a specific perimeter. I can find the perimeter of different shapes. I can use scale diagrams to find the perimeter of a shape.</p> <p>Area I can measure the area of shapes by counting squares. I can measure the area of squares. I can measure the area of a shape. I can measure area in square metres.</p>

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	<p>I can find the area of shapes in square metres. I can make an estimation of area in kilometres.</p> <p>Volume I can understand the volume of solids. I can find the volume of 3-D shapes. I can find the volume of solids. I can find the capacity of a cuboid. I can find the capacity of rectangular boxes. I can compare and convert units of volume. I can convert units of volume (metric and imperial). I can solve word problems involving volume.</p>
Year 6	<p>Conversions I can convert common measurements into metres, centimetres and millimetres. I can convert units of measure into different units; to use knowledge of decimals and fractions to help convert units. I can convert metres into kilometres as units of measure. I can convert units of mass from grams to kilograms using decimals and fractions. I can convert units of volume from millilitres to litres. I can convert units of time from minutes to hours; to represent time using 24-hour notation.</p> <p>Volume I can find the volume of cubes and cuboids using concrete materials. I can determine the formula for the volume of cubes and cuboids and apply it to calculate the volume of shapes. I can estimate the volume of objects and spaces; to calculate the volume of boxes using the formula for volume of cubes and cuboids. I can calculate the volume of boxes using the formula for volume of a cube; to expose common misconceptions in volume through a 3-box arrangement. I can solve word problems involving the volume of cubes and cuboids; to apply the formula for the volume of a cube or cuboid.</p>
<u>Word Problems</u>	
Reception	
Year 1	
Year 2	<p>I can decide when it is appropriate to add and/or subtract when solving word problems; to improve the use of bar modelling and decision making based on visual representations. I can use the bar model method to solve word problems looking at the difference between two amounts. I can solve multi-step word problems using bar modelling; to use more than one bar model in a problem to work out the answer. I can use bar modelling to solve multi-step word problems involving unknown quantities</p>
Year 3	
Year 4	

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Year 5	<p>I can solve word problems involving multiple operations; to identify the operation needed to carry out the plan.</p> <p>I can solve word problems involving multiplication and division using bar models as the main heuristic.</p> <p>I can solve word problems involving multiple operations, identifying key information and representing information using bar model diagrams.</p> <p>I can solve word problems involving multiple operations, using bar models as they key heuristic to represent key information.</p>
Year 6	<p>I can use bar models to solve word problems involving the four operations.</p> <p>I can use the bar model heuristic to solve word problems involving the four operations.</p> <p>I can use the bar model heuristic to solve complex word problems involving time.</p> <p>I can solve complex word problems using pictorial representation and the four operations.</p> <p>I can create and solve word problems that apply the bar model heuristic and working backwards as the main strategies.</p> <p>I can create and solve complex word problems using the four operations.</p>
<u>Geometry – Position and Direction</u>	
Reception	Continue, copy and create repeating patterns.
Year 1	<p>I can learn the appropriate positional language (ordinal numbers) for up to 10 positions.</p> <p>I can name the positions in a queue.</p> <p>I can name positions, including left and right.</p> <p>I can describe the position of objects in relation to one another using varied vocabulary.</p> <p>I can describe movements of objects using varied language.</p> <p>I can understand how to make turns using mathematical language and connect this knowledge to time.</p>
Year 2	
Year 3	
Year 4	<p>I can describe position.</p> <p>I can plot coordinates.</p> <p>I can describe movements.</p> <p>I can describe movements (coordinates).</p>
Year 5	<p>I can name and plot points.</p> <p>I can describe the position of a shape following a translation.</p> <p>I can describe movements and reflecting shapes.</p> <p>I can describe the movement of a 2-D shape when reflected.</p> <p>I can reflect a shape more than once.</p>
Year 6	<p>I can represent negative numbers on both vertical and horizontal number lines.</p> <p>I can describe the positions of objects on a coordinate grid; to use x and y axes to determine the position of objects on a grid.</p> <p>I can describe the position of points using coordinates on a grid.</p> <p>I can draw polygons on a coordinate grid; to recognise polygons on a coordinate grid.</p> <p>I can describe the translation of shapes on a coordinate grid.</p> <p>I can describe reflection using a mirror line and the terms 'object' and 'image'.</p> <p>I can reposition objects so they can be reflected in the x and y axis as the mirror line.</p> <p>I can describe the movement of objects using the terms 'translation' and 'reflection'.</p> <p>I can use algebra to describe the positions of coordinates in relationship to one another.</p>

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	I can represent translation and reflection using algebraic notation.
	<u>Geometry – Properties of Shapes</u>
Reception	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.
Year 1	I can recognise four basic 3-D solid shapes: spheres, cubes, cuboids and pyramids. I can recognise 2-D shapes in the everyday environment. I can group shapes using different criteria. I can make patterns using common 2-D shapes.
Year 2	I can identify the number of sides on basic 2-D shapes. I can identify and count the vertices in regular polygons. I can identify lines of symmetry in basic 2-D shapes. I can construct shapes using pattern blocks that have lines of symmetry. I can sort shapes based on number of sides, vertices and other factors. I can draw shapes using square grid and dot grid paper; to copy shapes from sight using grid paper. I can recognise patterns of familiar shapes and colours of up to three objects. I can describe patterns using ordinal numbers and shape names. I can move shapes on a square grid from one position to another using common language. I can turn objects using quarter, half and three-quarter turns both clockwise and anticlockwise on a square grid. I can recognise 3-D shapes by identifying their properties. I can describe 3-D shapes and classify them using faces, vertices and edges. I can describe 3-D shapes based on the number of faces and the 2-D shapes of these faces; to construct nets of shapes into 3-D shapes. I can group 3-D shapes by similar properties. I can form 3-D structures using multiple 3-D objects. I can make and recognise patterns using 3-D shapes.
Year 3	I can learn what makes an angle and identify angles in objects. I can see angles on the inside and outside of objects; to find angles in letters. I can find angles in shapes; to determine the relationship between the number of angles in a shape and the number of sides. I can find right angles in everyday objects; to understand what makes a right angle. I can compare angles using the terms 'right' angle and 'acute' angle; to identify acute angles as smaller angles than right angles. I can identify right angles and acute angles; to recognise and define an obtuse angle. I can make turns using angles vocabulary; to align the language of angles and fractions to describe turns. I can identify, define and create perpendicular lines; to find perpendicular lines in everyday objects. I can identify, define and create parallel lines; to find parallel lines in everyday objects. I can define and identify vertical and horizontal lines; to find vertical and horizontal lines in everyday life. I can describe 2-D shapes using familiar vocabulary about lines and angles. I can draw 2-D shapes in proportion to their size; to identify how big a shape is. I can create 3-D shapes out of nets; to use vocabulary related to 3-D shapes and their properties.

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	<p>I can construct 3-D shapes out of clay and discuss their properties. I can describe 3-D shapes using familiar terms; to identify properties of 3-D shapes.</p>
Year 4	<p>I can identify types of angles. I can compare angles. I can classify triangles. I can classify quadrilaterals. I can identify symmetrical figures. I can draw lines of symmetry. I can draw symmetrical figures. I can make symmetrical figures. I can complete symmetrical figures. I can sort shapes.</p>
Year 5	<p>I can know the names and qualities of acute, right, obtuse and reflex angles. I can measure angles using a protractor. I can draw, measure and add angles using a protractor. I can measure angles using a protractor; to identify two angles which add up to 180 degrees on a straight line. I can investigate angles that, when combined, make 360 degrees. I can draw angles using a protractor. I can draw lines and angles with a high level of accuracy. I can describe the sides and angles of both rectangles and squares. I can investigate the angles of various quadrilaterals, including squares and rectangles. I can solve problems involving angles in rectangles. I can solve problems involving angles. I can use our understanding of angles to solve problems. I can investigate regular polygons.</p>
Year 6	<p>I can investigate opposite angles; to use prior knowledge of angles to solve problems involving angles. I can solve problems involving angles using the bar model heuristic; to solve problems involving angles without protractors. I can determine and show the sum of the angles inside a triangle. I can investigate and determine angles in quadrilaterals. I can use the knowledge of angles inside a triangle and a quadrilateral to solve problems involving angles in other shapes.</p> <p>I can name the parts of a circle; to calculate diameter and radius using parts of a circle. I can solve problems involving angles in a circle. I can draw quadrilaterals with specific side lengths and parallel lines; to find the perimeter of shapes and name trapeziums and parallelograms. I can draw triangles using measurements and angles as the starting point; to use a protractor to draw triangles using angles. I can construct triangles using a protractor and ruler; to use ratio to determine the dimensions of a triangle. I can construct the nets of 3-D shapes by identifying the faces and the 2-D shapes that construct them. I can construct the nets of 3-D shapes by identifying the faces and the 2-D shapes that construct them.</p>
	<u>Statistics</u>

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Reception	
Year 1	
Year 2	<p>I can read a picture graph with confidence.</p> <p>I can read and interpret a picture graph with confidence.</p> <p>I can read and interpret a picture graph where the value of the picture can represent more than 1.</p> <p>I can read and interpret a picture graph where the value of the picture can represent more than 1.</p> <p>I can read, interpret and create a picture graph where the value of the picture can represent more than 1.</p>
Year 3	<p>I can construct picture graphs from a set of data; to present data with pictures that represent more than one item.</p> <p>I can construct bar graphs from a set of data; to use proportion to reflect precise difference in quantity.</p> <p>I can read and interpret information from a bar graph; to use and understand vocabulary related to bar graphs.</p> <p>I can read bar graphs where the scale is not a multiple of all quantities measured.</p> <p>I can read bar graphs where the scale is made up of larger increments</p>
Year 4	<p>I can draw and read picture graphs and bar graphs.</p> <p>I can draw and read bar graphs.</p> <p>I can draw and read line graphs.</p> <p>I can draw and read a line graph.</p> <p>I can draw and read line graphs (drawing focus)</p>
Year 5	<p>I can read the information presented in a table and interpret its meaning.</p> <p>I can read and respond to information presented in a table.</p> <p>I can read and respond to tables that have a variety of data sets.</p> <p>I can read and interpret information provided in a line graph where a single line represents the data.</p> <p>I can read and interpret information presented on a line graph where the data is represented by more than one line.</p> <p>I can read and interpret information presented in a table and turn it into a line graph; to determine relationships between data sets</p>
Year 6	<p>I can calculate the average (mean) of sets of values.</p> <p>I can calculate the mean.</p> <p>I can solve problems involving the mean; to use the mean and the number of values to calculate the total; to use given information to find unknown values.</p> <p>I can show information on graphs; to transfer information from a table to a pie chart.</p> <p>I can read and interpret pie charts.</p> <p>I can read and interpret pie charts; to use percentages in pie charts.</p> <p>I can read and interpret pie charts; to use knowledge of angles to interpret pie charts.</p> <p>I can read line graphs; to interpret the information in line graphs that show distance and time.</p> <p>I can read and interpret line graphs; to answer questions about the information in line graphs.</p> <p>I can convert miles into kilometres and kilometres into miles.</p> <p>I can read and interpret line graphs</p>

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