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| **EYFS** |
| **Number** |
| Have a deep understanding of number to 10, including the composition of each number. |
| Subitise (recognise quantities without counting) up to 5. |
| Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5(including subtraction facts) and some number bonds to 10, including double facts. |
| **Numerical Patterns** |
| Verbally count beyond 20, recognising the pattern of the counting system. |
| Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. |
| Explore and represent patterns within numbers up to 10, including evens and odds, double factsand how quantities can be distributed equally. |
| **Shape, Space and Measures** |
| There are no early learning goals that directly relate to shape, space and measure objectives. However, children will have experienced rich opportunities to develop their spatial reasoning skillsin shape, space and measure. |

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| **Year One** |
| **Number and Place Value** |
| Count within 100, forwards and backwards, starting with any number. |
| Reason about the location of numbers to 20 within the linear numbersystem, including comparing using < > and =. |
| **Number Facts** |
| Develop fluency in addition and subtraction facts within 10. |
| Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any mu count forwards and backwards through the odd numbers. |
| **Addition and Subtraction** |
| Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. |
| Read, write and interpret equations containing addition (+), subtraction (−) and equals (=) symbols,and relate additive expressions and equations to real-life contexts. |
| **Geometry** |
| Recognise common 2D and 3D shapes presented in different orientations, and know thatrectangles, triangles, cuboids and pyramids are not always similar to one another. |
| Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. |

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| **Year Two** |
| **Number and Place Value** |
| Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning. |
| Reason about the location of any two-digit number in the linear number system, including identifyingprevious and next multiple of 10. |
| **Number Facts** |
| Secure fluency in addition and subtraction facts within 10, through continued practice. |
| **Addition and Subtraction** |
| Add and subtract across 10. |
| Recognise the subtraction structure of ‘difference’ and answer questions of the form, “How many more…?”. |
| Add and subtract within 100 by applying related one-digit addition and subtraction facts: add andsubtract only ones or only tens to/from a two-digit number. |
| Add and subtract within 100 by applying related one-digit addition and subtraction facts: add andsubtract any 2 two-digit numbers. |
| **Multiplication and Division** |
| Recognise repeated addition contexts, representing them with multiplication equations andcalculating the product, within the 2, 5 and 10 multiplication tables. |
| Relate grouping problems where the number of groups is unknown to multiplication or divisionequations with a missing factor. |
| **Geometry** |
| Use precise language to describe the properties of 2D and 3D shapes, and compare shapes byreasoning about similarities and differences in properties. |

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| **Year Three** |
| **Number and Place Value** |
| Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this toidentify and work out how many 10s there are in other three-digit multiples of 10. |
| Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning. |
| Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10. |
| Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100with 2, 4, 5 and 10 equal parts. |
| **Number Facts** |
| Secure fluency in addition and subtraction facts that bridge 10, through continued practice. |
| Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the correspondingnumber. |
| Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10). |
| **Addition and Subtraction** |
| Calculate complements to 100. |
| Add and subtract up to three-digit numbers using columnar methods. |
| Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction. |
| **Multiplication and Division** |
| Apply known multiplication and division facts to solve contextual problems with different structures. |
| **Fractions** |
| Interpret and write proper fractions to represent 1 or several parts of a whole that is divided intoequal parts. |
| Find unit fractions of quantities using known division facts (multiplication tables fluency). |
| Reason about the location of any fraction within 1 in the linear number system. |
| Add and subtract fractions with the same denominator, within 1. |
| **Geometry** |
| Recognise right angles as a property of shape or a description of a turn, and identify right angles in2D shapes presented in different orientations. |
| Draw polygons by joining marked points, and identify parallel and perpendicular sides. |

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| **Year Four** |
| **Number and Place Value** |
| Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100;apply this to identify and work out how many 100s there are in other four-digit multiples of 100. |
| Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning. |
| Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each. |
| Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of1,000 with 2, 4, 5 and 10 equal parts. |
| **Number Facts** |
| Recall multiplication and division facts up to 12 × 12, and recognise products in multiplication tablesas multiples of the corresponding number. |
| Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders,and interpret remainders appropriately according to the context. |
| Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by100). |
| **Multiplication and Division** |
| Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understandthis as equivalent to making a number 10 or 100 times the size. |
| Manipulate multiplication and division equations, understand and apply the commutative propertyof multiplication. |
| Understand and apply the distributive property of multiplication. |
| **Fractions** |
| Reason about the location of mixed numbers in the linear number system. |
| Convert mixed numbers to improper fractions and vice versa. |
| Add and subtract improper and mixed fractions with the same denominator, including bridgingwhole numbers. |
| **Geometry** |
| Draw polygons, specified by coordinates in the first quadrant, and translate within the firstquadrant. |
| Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons. |
| Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line ofsymmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry. |

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| **Year Five** |
| **Number and Place Value** |
| Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredthsare equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01. |
| Recognise the place value of each digit in numbers with up to 2 decimal places, and compose anddecompose numbers with up to 2 decimal places using standard and non-standard partitioning. |
| Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. |
| Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5and 10 equal parts. |
| Convert between units of measure, including using common decimals and fractions. |
| **Number Facts** |
| Secure fluency in multiplication table facts, and corresponding division facts, through continuedpractice. |
| Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1tenth or 1 hundredth). |
| **Multiplication and Division** |
| Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or100 times the size, or 1 tenth or 1 hundredth times the size. |
| Find factors and multiples of positive whole numbers, including common factors and commonmultiples, and express a given number as a product of 2 or 3 factors. |
| Multiply any whole number with up to 4 digits by any one-digit number using a formal writtenmethod. |
| Divide a number with up to 4 digits by a one-digit number using a formal written method, andinterpret remainders appropriately for the context. |
| **Fractions, Decimals and Percentages** |
| Find non-unit fractions of quantities. |
| Find equivalent fractions and understand that they have the same value and the same position in thelinear number system. |
| Recall decimal equivalents for 1/2, 1/4, 1/5 and 1/10, and for multiples of these proper fractions. |
| **Geometry** |
| Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size. |
| Compare areas and calculate the area of rectangles (including squares) using standard units. |

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| **Year Six** |
| **Number and Place Value** |
| Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiplyand divide by 10, 100 and 1,000). |
| Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, andcompose and decompose numbers up to 10 million using standard and non-standard partitioning. |
| Reason about the location of any number up to 10 million, including decimal fractions, in the linearnumber system, and round numbers, as appropriate, including in contexts. |
| Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and readscales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. |
| **Addition, Subtraction, Multiplication and Division** |
| Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a wholenumber). |
| Use a given additive or multiplicative calculation to derive or complete a related calculation, usingarithmetic properties, inverse relationships, and place-value understanding. |
| Solve problems involving ratio relationships. |
| Solve problems with 2 unknowns. |
| **Fractions, Decimals and Percentages** |
| Recognise when fractions can be simplified, and use common factors to simplify fractions. |
| Express fractions in a common denomination and use this to compare fractions that are similar invalue. |
| Compare fractions with different denominators, including fractions greater than 1, using reasoning,and choose between reasoning and common denomination as a comparison strategy. |
| **Geometry** |
| Draw, compose, and decompose shapes according to given properties, including dimensions, anglesand area, and solve related problems. |