**Progression in Number Small Steps**

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|  | **RECEPTION** | **YEAR 1** | **YEAR 2** | **YEAR 3** | **YEAR 4** |
| **PLACE VALUE AND NUMBER** | **Count up to three or four objects by saying one number name for each item****Count actions or objects that cannot be moved****Recognise numerals 1-5****Select the correct numeral to represent 1-5****Compare quantities of identical objects** **Compare quantities of non-identical objects** **Count objects to 10, and begin to count beyond 10****Count an irregular arrangement of up to ten objects****Say the number that is one more****Find one more or less from a group of up to ten objects****Count out up to six objects from a larger group****Compare groups up to 10****Use the language of ‘more’ and ‘fewer’ to compare two sets of objects****Count reliably to 20, place numbers in order and say which number is one more or one less** | **Sort objects** **Count objects Count objects from a larger group** **Represent objects** **Recognise numbers as words** **Count on from any number 1 more** **Count backwards within 10 1 less** **Compare groups by matching Fewer, more, same Less than, greater than, equal to** **Compare numbers** **Order objects and numbers** **The number line****Count forwards and backwards and write numbers to 20 in numerals and words****Numbers from 11-20****Tens and ones****Count one more and one less****Compare groups of objects****Compare numbers****Order groups of numbers****Order numbers****Represent numbers to 50 using tens and ones****One more one less** **Compare objects and numbers within 50****Order numbers within 50****Count in 2s and 5s****Count forwards and backwards within 100****Partition numbers****Compare and order numbers****One more, one less** | **Numbers to 20** **Count objects to 100 by making 10s** **Recognise tens and ones** **Use a place value chart** **Partition numbers to 100** **Write numbers to 100 in words** **Flexibly partition numbers to 100** **Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100** **Estimate numbers on a number line** **Compare objects** **Compare numbers** **Order objects and numbers** **Count in 2s, 5s and 10s** **Count in 3s** | **Represent numbers to 100** **Partition numbers to 100** **Number line to 100** **Hundreds** **Represent numbers to 1,000** **Partition numbers to 1,000** **Flexible partitioning of numbers to 1000** **Hundreds, tens and ones** **Find 1, 10 or 100 more or less** **Number line to 1,000** **Estimating on a number line to 1,000** **Compare numbers to 1,000** **Order numbers to 1,000** **Count in 50s** | **Represent numbers to 1,000** **Partition numbers to 1,000** **Number line to 1,000** **Thousands** **Represent numbers to 10,000** **Partition numbers to 10,000** **Flexible partitioning of numbers to 10,000** **Find 1, 10, 100, 1,000 more or less** **Number line to 10,000** **Estimate on a number line to 10,000** **Compare numbers to 10,000** **Order numbers to 10,000** **Roman numerals** **Round to the nearest 10** **Round to the nearest 100** **Round to the nearest 1,000** **Round to the nearest 10, 100 or 1,000** |
| **ADDITION AND SUBTRACTION** | **Sorting into groups****Say the number that is one more or less to 5****Find one more****Find one less****Find the total number of items in two groups by counting all of them****Say the number that is one more than any number****Find one more or one less from a group of up to 5 objects****In practical activities and discussion, is beginning to use the vocabulary involved in adding and subtracting****Record, using marks that they can interpret and explain****Combine two groups to find the whole****Find pairs with a total of 6 or 7****In practical activities and discussion, begin to use the vocabulary involved in adding and subtracting** **Find number bonds to 10 using a ten frame****Find number bonds to 10 using a part-whole model****Begin to subtract by guessing how many are hiding****Record, using marks that they can interpret and explain****Add 1,2 or 3 to any number to 10 by counting on****Taking away by counting back****Find doubles to 5 +5** | **Introduce parts and wholes** **Part-whole model** **Write number sentences Fact families - addition facts** **Number bonds within 10** **Systematic number bonds within 10** **Number bonds to 10** **Addition - add together** **Addition - add more** **Addition problems****Find a part Subtraction - find a part** **Fact families - the eight facts** **Subtraction - take away/crossing out (How many left?)****Subtraction - take away (How many left?)** **Subtraction on a number line** **Add or subtract 1 or 2****Add by counting on****Find and make number bonds****Add by making 10****Subtraction including crossing 10****Related facts****Compare number sentences** | **Bonds to 10** **Fact families – addition and subtraction bonds within 20** **Related facts** **Bonds to 100 (tens)** **Add and subtract 1s** **Add by making 10** **Add three 1-digit numbers Add to the next 10** **Add across a 10** **Subtract across 10** **Subtract from a 10** **Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less** **Add and subtract 10s** **Add two 2-digit numbers (not across a 10)** **Add two 2-digit numbers (across a 10)** **Subtract two 2-digit numbers (not across a 10)** **Subtract two 2-digit numbers (across a 10)** **Mixed addition and subtraction** **Compare number sentences** **Missing number problems** | **Apply number bonds within 10** **Add and subtract 1s** **Add and subtract 10s** **Add and subtract 100s** **Spot the pattern**  **Add 1s across a 10** **Add 10s across a 100** **Subtract 1s across a 10** **Subtract 10s across a 100** **Make connections** **Add two numbers (no exchange)** **Subtract two numbers (no exchange)****Add two numbers (across a 10)** **Add two numbers (across a 100)** **Subtract two numbers (across a 10)** **Subtract two numbers (across a 100)** **Add 2-digit and 3-digit numbers** **Subtract a 2-digit number from a 3-digit number** **Complements to 100** **Estimate answers** **Inverse operations****Make decisions** | **Add and subtract 1s, 10s, 100s and 1,000s** **Add up to two 4-digit numbers - no exchange** **Add two 4-digit numbers - one exchange** **Add two 4-digit numbers– more than one exchange** **Subtract two 4-digit numbers - no exchange** **Subtract two 4-digit numbers - one exchange** **Subtract two 4-digit numbers – more than one exchange** **Efficient subtraction** **Estimate answers** **Checking strategies** |
| **MULTIPLICATION AND DIVISION** | **Count in 1s and 10s to 100****Double numbers to 5 +5****Solve practical problems involving halving and sharing****Use practical resources to find odd and even numbers** | **Count in 2s, 5s, 10s****Make and add equal groups****Make arrays****Make doubles****Make equal groups-grouping and sharing** | **Make and add equal groups****Make arrays****Recognise, make and add equal groups****Multiplication sentences using x symbol****Multiplication sentences from pictures****Use arrays****Make doubles****2,5, and 10 times table****Make equal groups-sharing and grouping****Divide by 2****Odd and even numbers** **Divide by 5 and 10** | **Divide by 3** **The 3 times-table** **Multiply by 4** **Divide by 4** **The 4 times-table** **Multiply by 8** **Divide by 8** **The 8 times-table** **The 2, 4 and 8 times-tables****Consolidate 2,4 and 8 times tables****Compare statements****Related calculations****Multiply and divide 2 digit by 1 digit****Scaling****How many ways?** | **Multiples of 3** **Multiply and divide by 6** **6 times-table and division facts** **Multiply and divide by 9** **9 times-table and division facts** **The 3, 6 and 9 times-tables** **Multiply and divide by 7** **7 times-table and division facts** **11 times-table and division facts** **12 times-table and division facts** **Multiply by 1 and 0** **Divide by 1 and itself** **Multiply three numbers Factor pairs****Efficient multiplication****Written methods****Multiply 2 digits by 1 digit****Multiply 3 digits by 1 digit****Divide 2 digits by 1 digit** |
| **FRACTIONS AND DECIMALS** |  | **Find halves and quarters** | **Make equal parts****Recognise and find half and quarter****Recognise and find one third****Unit and non-unit fractions****Equivalence of ½ and 2/4** **Find three-quarters****Count in fractions** | **Make equal parts** **Recognise and find half, quarter and third****Unit and non-unit fractions****Equivalence of ½ and 2/4** **Count in fractions****Making the whole****Count in tenths****Tenths as decimals****Fractions on a number line****Fractions of a set of objects****Equivalent fractions****Compare and order fractions****Add and subtract fractions** | **Unit and non-unit fractions****Tenths –count in tenths****Equivalent fractions** **Fractions greater than 1****Count in fractions****Add fractions****Add 2 or more fractions****Recognise tenths and hundredths****Tenths as decimals****Tenths on a place value grid and number line****Divide 1 then 2 digits by 10****Hundredths as decimals****Hundredths on a place value grid****Divide 1 or 2 digits by 100****Bonds to 10 and 100****Make a whole****Write, compare and order decimals****Round decimals****Halves and quarters** |

**Progression in Measurement Small Steps**

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|  | **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
| **Length and Height** | **Order two or three items by length or height** | **Compare lengths and heights****Measure length**  | **Compare lengths and heights****Measure lengths in cm and m****Compare and order lengths****Four operations with lengths** | **Measure length (m)****Equivalent lengths m, cm and mm****Compare lengths****Add and subtract lengths** | **Equivalent lengths-m and cm, mm and cm****Kilometres****Add lengths****Subtract lengths** |
| **Perimeter and Area** |  |  |  | **Measure and calculate perimeter** | **What is area?****Counting squares****Making shapes****Comparing area** **Measure perimeter** **Perimeter on a grid****Perimeter or rectangles and rectilinear shapes** |
| **Weight and Volume** | **Order two items by weight or capacity**  | **Introduce weight and mass****Measure and compare mass****Introduce capacity and volume****Measure capacity and volume** |  |  |  |
| **Mass, Capacity and Temperature** | **Order two items by weight or capacity**  |  | **Introduce weight and mass****Measure and compare mass****Measure mass in grams****Introduce capacity and volume****Measure capacity** **Compare volume****Millilitres and litres****Temperature** | **Compare and measure mass****Add and subtract mass****Compare volume****Measure and compare capacity****Add and subtract capacity****Temperature** |  |
| **Money** |  | **Recognise coins and notes****Count in coins** | **Recognise coins and notes****Count money-pence and pounds****Select money****Make the same amount****Compare money****Find the total, difference, change****Two step problems**  | **Convert pounds and pence****Add and subtract money****Give change** | **Pounds and pence****Ordering money****Estimating money****Convert pounds and pence****Add and subtract money****Find change****Four operations** |
| **Time** | **Use everyday language related to time****Order and sequence familiar events****Measure short periods of time** | **Before and after****Dates****Tell time to the hour and half hour****Compare time** | **Tell time to the hour and half hour****clock and half past****Quarter past and quarter to****Tell time to 5 minutes****Hours and days****Find and compare durations of time** | **Clock, half past, quarter to and quarter past****Months and years****Hours in a day****Telling the time to 5 minutes and the minute****Using am and pm****24 hour clock****Find and compare durations****Start and end times****Measuring time in seconds** | **Telling the time to 5 minutes****Telling the time to the minute****Using a.m. and p.m.****24 hour clock****Hours, minute and seconds****Years, months, weeks and days****Analogue to digital-12 hour and 24 hour** |

**Progression in Geometry and Statistics Small Steps**

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|  | **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
| **Geometry – Shapes and patterns** | **Begin to use mathematical names for solid 3D shapes and flat 2D shapes****Use mathematical terms to describe shapes****Select a particular named shape****Use familiar objects and common shapes to create and recreate patterns and build models****Describe their relative position such as ‘behind’ or ‘next to’****Make simple patterns****Explore more complex patterns****Continue a repeating pattern with three colours/shapes/objects****Recognise and create symmetrical patterns Make simple patterns** | **Recognise and name 3-D shapes****Sort 3-D shapes****Recognise, name and sort 2-D shapes****Make patterns with 2-D and 3-D shapes** | **Recognise 2-D and 3-D shapes** **Count sides on 2-D shapes** **Count vertices on 2-D shapes** **Draw 2-D shapes** **Lines of symmetry on shapes** **Use lines of symmetry to complete shapes** **Sort 2-D shapes** **Count faces on 3-D shapes** **Count edges on 3-D shapes** **Count vertices on 3-D shapes** **Sort and make patterns with 2D and 3-D shapes** | **Turns and angles****Right angles in shapes****Compare angles****Draw accurately****Horizontal, vertical, parallel and perpendicular****Recognise and describe 2D and 3D shapes****Make 3D shapes** | **Turns and angles****Right angles in shapes****Compare, identify and order angles****Recognise and describe 2-D shapes****Triangles and quadrilaterals****Horizontal and vertical****Lines of symmetry****Complete a symmetrical figure** |
| **Geometry – Position and direction** |  | **Describe turns and position** | **Describe position, movement and turns****Make patterns with shapes** |  | **Describe a position****Draw on a grid****Move on a grid****Describe movement on a grid** |
| **Statistics** |  |  | **Make tally charts****Draw and interpret pictograms (1-1)****Draw and interpret pictograms (2,5 and 10)****Block diagrams**  | **Make tally charts****Draw and interpret pictograms (2,5 and 10)****Pictograms, bar charts, tables** | **Interpret charts****Comparison, sum and difference** **Introduce line graphs** |