**Progression in Number Small Steps**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **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** |