John T. Rice Infant and Nursery School
Aim high and shine

Maths Vocabulary Progression

Newlands Junior School
We are Proud

Number and Place Value Vocabulary

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Numbers to 0 - 21 with words & pictorial representation	Number, numeral, digit Pair Tens and Ones Numbers 0 to 21 with words Twenty one, twenty two …. One hundred Count (on/up/to/from/down) Before, after Most, least More, less, Ten more/less many, few, fewer, least, fewest, smallest, greater, lesser Equal to, the same as Odd, even Forwards, backwards Many Above, below Compare (In) order/a different order, size between, <u>Estimating</u> Roughly	Hundreds, Tens, Ones One/ two digit numbers Place value Stands for, represents Partition Numbers to 100 with words Equals Count in twos, threes, fours and fives Sequence, continue, predict Greater than > Less than < Equivalent to <u>Estimating</u> Exact, exactly	Numbers to 1000 in words (e.g. the ones – tens, hundreds, thousands) Three digit numbers Count in fours, eights, fifties and hundreds Hundred more/less Round, nearest, Round to nearest ten, round to nearest hundred Round up, round down	Four digit number Thousands Hundreds Tens and ones Integer, positive, negative, minus Negative numbers, negative integers Tenths, hundredths Decimal (places) factor Thousand more/less than Next, consecutive Count in sixes, sevens, nines, 25s and thousands Count through zero Above/below zero Roman numerals (I to C) Round (to nearest) thousand	Powers of 10 Factor pair Round to nearest ten thousand and hundred thousand numbers up to 1,000,000 Roman numerals to M	Numbers to ten million Factorise, prime factor <u>**Algebra**</u> Linear number sequence Substitute Variables Symbol Known values

Addition and Subtraction Vocabulary						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Add Take away Equals How many Altogether	Add, addition, + Take away - Equals, = is the same as Subtract Count back Count on Altogether Total Plus Double Half, halve Number bonds Pairs Missing numbers How many more to make..?, how many more is…than..?, how much more is..? Subtract, take away, minus How many fewer is…than..?, how much less is..?	**Addition** Add Plus More than Count on Altogether Crossing ten **Subtraction** Take away Subtract Minus Inverse Count back Fewer Less than Exchange Find the difference	Formal written methods Column addition Carry Column subtraction Exchange	Inverse Estimate, check	Efficient written methods	Order of operations

Multiplication and Division Vocabulary						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
X Language Sharing Groups **÷ Visual** Hoops Compare bears etc. **÷ Language** Sharing Grouping	Repeated addition Array, row Double Halve Equally Lots of Groups of Multiplication Multiply/ied by Multiple, multiple of Times by Groups Double Halve Equally Share, share equally Groups of, equal groups of Grouping Lots of Division Divide/d by Dividing	Repeated addition Arrays Multiplication Inverse Repeated addition Lots of Groups of Multiples Multiplication Equal Groups Sharing Dividing/ divide Partitioning Division Fraction of Half	Grid Method Jottings Multiples/of Jotting Partitioning Grid Columns Product Record Scaling up Chunking Jottings, key facts Divisor Strategies Divisible by How many Factor remainder	Formal written method Short multiplication Expanded method Compact method Estimate Factors, factor pairs Scaling up Multiplication facts (up to 12x12) Commutativity Distributive law Correspondence Squared numbers Chunking groups Short division Remainder Left over Columns Workings Chunks Multiples Remainder Division facts Estimate Inverse Derive	Long multiplication Cubed numbers Common factors, common multiples Chunking with multiples Long division Quotient Check using Inverse Prime numbers Prime factors Composite numbers Interpret remainders in context	Order of operations

Fractions, Decimals and Percentages Vocabulary						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number line to 0-2- with pictorial representation Money with concrete/ pictorial representation Coin with concrete/pictorial representation	Fraction Whole Equal part/s Equal sharing One half, two halves A quarter, two quarters	Name:1/3, 1/4, 2/3, ¾ Equivalence, equivalent Equal grouping	Numerator, denominator Same denominator Unit fraction, non-unit fraction Equivalent fractions Compare, order Sixths, sevenths, eighths, tenths	Decimal Equivalent decimals and fractions Decimal equivalents Decimal point hundredths proportion	Proper/improper fractions, Reduce to cancel mixed numbers Percentage % thousandths Convert	Degree of accuracy Simplify Express in the simplest form ratio

Statistics Vocabulary						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Vote, table	Graph Interpret Tally Chart Block Diagram Compare	Interpret Construct Pictogram Tally Chart Block Diagram Table Category Quantity Total Compare Data	Discrete data Continuous data Graphical Bar Chart Time Graph Comparison Sum Difference	Line Graph Timetable Coordinates on time graphs Pie Charts Line graphs Interpret data Mean average Data sets – connectivity of concepts	Pie charts Mean, mode, median, range distribution

Measures Vocabulary						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Length Longer, shorter **Size** Bigger, smaller **Weight** Balances, Scales Weigh, weighs, Heavy, heavier, heaviest light, lighter, lightest **Capacity** Holds Empty, full, half full **Time** Time Days of the week, months of the year, seasons Before, after	Measurement Long, short centimetres Heavy, light, roughly Ruler, metre stick **Clock** Hours, minutes, seconds, O'clock, half past **Time** Yesterday, today, tomorrow, morning, afternoon, evening – within timetables etc. Days of the week/months of the year, seasons **Comparison of measure** Kilogram, Litre, capacity, volume, More than, less than, Quarter full **Money** Change, costs more, costs less, costs the same as, total How much…? How many…?	Temperature (degrees) **Clock** quarter past, quarter to intervals of 5 minutes **Comparison of measure** m / cm l / ml in context g / kg **Money** Pounds £, pence p	Perimeter or 2D shapes **Clock** Tell time to nearest minute Analogue, digital- 24 hour clock Twelve-hour/twenty- four- hour clock Roman numerals I to XIII **Time** am/pm, morning, afternoon, noon, midnight Leap year **Comparison of measure** mm / cm /m kg / g ml / l **Money** Add, subtract, give change	Perimeter & area of rectilinear shapes **Converting** Convert km to m Hour to minute Analogue – 12 hour Digital – 24 hour £ to p, p to £	Composite rectilinear Formulae – area Volume Scaling Metric units Standard units Square centimetres (cm^2) Square metres (m^2) Imperial units Feet, Inches Pints, fluid ounces Pounds, ounces	Radius, diameter, circumference Tonne cubic centimetres(cm3), cubic metres (m3), cubic millimetres (mm3), centilitre, cubic kilometres (km3) **Converting** miles into Km

Geometry Vocabulary						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Position On, under, above, behind, in front of, in, next to/beside, between **2D Shapes** Circle, triangle, rectangle, square **3D Shapes** Cube, pyramid, cuboid, cone, sphere, cylinder **Properties** Sides, corners, faces	**Position** As Reception + shapes rotated for progression. Underneath, centre, **2D Shapes** As Reception + shapes rotated for progression. Point, Edges, vertices **3D Shapes** As Reception + shapes rotated for progression. 3D shape names (e.g cube, cuboid) Edges, vertices, faces **Properties** Vertices, edges, faces **Direction** left, right, half turn, quarter turn, ¾ turn **Symmetry** Symmetry Symmetrical	**2D & 3D Shapes** Irregular shapes 2D faces within 3D shapes **Properties language** Edges, vertices, faces **Symmetry** Vertical, horizontal **Position/Direction** ¼ turns, ¾ turns, clockwise, anticlockwise	2D shape pentagonal hexagonal octagonal quadrilateral parallel perpendicular right angle – turning 90°- ¼ -¾, greater than less than horizontal, vertical, diagonal equilateral triangle, 3D shape hemisphere prism triangular prism Position & Direction compass point north, south, east, west acute, obtuse	2D shape two dimensional oblong rectilinear Triangles – equilateral, isosceles, scalene, right-angled heptagon parallelogram rhombus kite trapezium polygon 3D shape three dimensional spherical cylindrical tetrahedron polyhedron Position & Direction north-east, north-west, south-east, south-west Translation – left, right Co-ordinates, quadrant (1st) construct reflect reflection regular, irregular orientation	Regular and irregular polygons Reflex angles octahedron protractor radius, diameter congruent angles reflective symmetry	Vertically opposite angles Circumference, Dodecahedron