Kirk Smeaton Mathematics Vocabulary Progression

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| EYES | EYESEYF | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Number and Place****Value**

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 | **EYFS**One more One less Place Order Number Count Numbers up to twenty Number line Pictorial Answer Equals Read Write | Same asprevious yeargroups, plus:

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|  Forwards Backwards Numerals Words Multiples Equal to More than Less than Fewer Most Least Identify Represent Digit Calculate Odd Even Pattern Numbers up to one hundred  |

 | Same asprevious year groups, plus:

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| Ones Tens Two- digit Estimate Place Value Solve Problems Greater than > Less than < Nearest ten Number facts Partition Count in steps Zero Compare Determine Value  |

 | Same asprevious yeargroups, plus:

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| Hundreds Three-digit ten more one hundred more ten less one hundred less Roman numeral Numbers up to one thousand  |

 | Same asprevious yeargroups, plus:

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|  Thousands Four- digit Negative number One thousand more One thousand less Decimal Decimal place Rounding Place holder Nearest ten Nearest hundred Nearest thousand One place Whole number Integer Tenths Hundredths  |

 | Same asprevious yeargroups, plus:

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|  Ten thousands Hundred thousands Millions Context Steps of powers Decimal equivalents Two decimal places Thousandths Numbers up to one million  |

 | Same asprevious yeargroups, plus:

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|  Intervals across zero Three decimal places Hundredths Thousandths Ten thousandths Numbers up to ten million  |

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| **Addition and subtraction** | Add Subtract Addition Subtraction Adding Subtracting Number Number line Single digit Count on Count back Answer Doubling Halving Sharing Numbers to twenty Check  | One step problem Concrete object Pictorial representation Missing number Problem Read Write Interpret Equals = Signs One-digit Two-digit Ones Mental Mentally  |

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| Columnar addition Columnar Subtraction Tens Order Inverse Relationship Calculation Solve problems Missing number problems Quantities Measures Formal Written method Mental method Method Operation Apply Whole number  |

 | Three-digit number Hundreds Estimate Number facts  | Two step problems Context Four-digit  | Increasingly large numbers More than 4 digits Rounding Determine Context Multi-step problems  |

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| Estimation Mixed operations  |

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| **Multiplication and Division** | sharing doubling halving number pattern  | Multiples Twos Fives Tens Number Multiply Divide Multiplication Division One step problem  | Multiplication facts Division facts Multiplication tables Odd numbers Even numbers Share Equally Repeated division  | Missing number problem Estimate Inverse Formal written method Mathematical statement Recall Integer Two- digit  | Derived facts Factors Factor pairs Scaling problems Three-digit  | Decimals Four-digit Long multiplication Short division Remainders Context Common factors Common multiples  | Scale factor Long division Whole number remainders Fractions Rounding Mixed operations  |
| **Measure** |

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| Measure Measurement Size Weight Capacity Compare Solve Problems Object Time  |

 | Sequence events Chronological order Before After Next First Today Yesterday Tomorrow Morning Afternoon Evening Record Hours Minutes Hour Half past O clock Hands Clock face Seconds Coins Notes Dates Days Weeks Months  | Change Five past Ten past Quarter past Twenty past Twenty-five past Half past Twenty-five to Twenty to Quarter to Ten to Five to  | Duration Time taken Nearest minute Record Seconds a.m. p.m. noon midnight kilometre add subtract millimetres perimeter simple 2-D shapes analogue clock roman numerals 12-hour 24-hour Leap year  | Estimate Rectilinear figure Area Rectilinear shapes Convert  | Square centimetres (cm2) Square metres (m2) Irregular shapes Volume (cm3) Cubes Cuboids Square numbers Cube numbers Metric measure Metric units Imperial units Inches Pounds Pints  | Decimal notation Cubic centimetres (cm3) Cubic metres (m3) Cubic millimetre (mm3) Cubic kilometre (Km3) Decimal places formulae Miles  |
| **Geometry and Position** | Shape Square Rectangle Circle Triangle Sides Straight side Curved side  | 2-D Shapes 3-D Shapes Two- Dimensional Three- Dimensional Cuboid Cube Pyramid Cone Cylinder Sphere  | Properties Compare Common Line symmetry Vertical line Edges Faces Vertices Pentagon Hexagon Heptagon Octagon Nonagon Decagon Kite Rhombus Polygon Square-based pyramid Triangular pyramid Triangular prism Rectangular prism Pentagonal prism Hexagonal prism Octagonal prism  | Angle Turn Right angles Quarter of a turn Half-turn Three quarters of a turn Complete turn Horizontal lines Vertical lines Perpendicular lines Parallel lines  | Lines of symmetry Symmetric figure Classify Geometric shapes Quadrilaterals Acute angle Obtuse angle  | Angles Measure Degrees Missing lengths Missing angles Regular polygons Irregular polygons Degrees Estimate compare Reflex angle Point Straight line Multiples  | Radius Diameter Circumference Nets  |
| **Fractions, Decimals and Percentages** |  | FractionHalfEqual partsOne wholeObjectShapeQuantityQuarter | Simple fractions Equivalent equivalence Count  | Tenths Unit fractions Non- unit fractions Numerator Denominator Compare Order Add Subtract Solve problems  | Hundredths Decimal Decimal place One decimal place Two decimal places Round decimals Whole number Common equivalent fractions Decimal equivalents Dividing Ones Tenths Hundredths Simple measure Money problems  | Thousandths Multiples Three decimal places Per cent Number of parts per hundred Percentages Decimal fraction Mixed numbers Improper fraction Proper fraction Convert Mathematical statements Multiply Percentage and decimal equivalents  | Common factors Common multiples Decimal fraction equivalents Simplest form  |
| **Statistics** |  |  | Interpret Construct Pictogram Tally chart Block diagrams Horizontal Vertical x- axis y-axis key title chart title Simple tables Ask Answer Questions Counting Objects Category Sort Quantity Total Compare Data  | Present Presented Graph Statistics Bar charts Tables Solve One- step questions Two- step questions Information  | Time graphs Comparison Problems  | Timetables Line graph  | Pie chart Calculate Mean Average  |
| **Algebra** |  | Solve One-step problem Missing number Check Calculate problem Sequence Chronological  | Inverse Relationship Compare Order Arrange Pattern  |  | Perimeter Algebra Algebraically  | Properties Rectangles Deduce Related facts Missing lengths Missing angles  | Missing number Problem Pairs Number sentence Variables Combination Possibility Enumerate Equation Formulae Generate Linear number sequence  |
| **Ratio and proportion** |  |  |  |  |  |  | Ratio Proportion Size Quantity Missing value Integer Multiplication Division Multiply Divide Solve Problem Calculate Percentage Comparison Unequal sharing Grouping Fractions Multiples  |