Kirk Smeaton Mathematics Vocabulary Progression

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| EYES | | EYESEYF | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Number and Place**  **Value**   |  | | --- | |  | | | **EYFS**  One more  One less  Place  Order  Number  Count  Numbers up to twenty  Number line  Pictorial  Answer  Equals  Read  Write | Same as  previous year  groups, plus:   |  | | --- | | 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 as  previous year groups, plus:   |  | | --- | | 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 as  previous year  groups, plus:   |  | | --- | | Hundreds  Three-digit  ten more  one hundred more  ten less  one hundred less  Roman numeral  Numbers up to one thousand | | Same as  previous year  groups, plus:   |  | | --- | | 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 as  previous year  groups, plus:   |  | | --- | | Ten thousands  Hundred thousands  Millions  Context  Steps of powers  Decimal equivalents  Two decimal places  Thousandths  Numbers up to one million | | Same as  previous year  groups, plus:   |  | | --- | | Intervals across zero  Three decimal places  Hundredths  Thousandths  Ten thousandths  Numbers up to ten  million | |
| **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 | |  | | --- | | 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 | |  | | --- | | Estimation  Mixed operations | |
| **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** | |  | | --- | | 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** |  | | Fraction  Half  Equal parts  One whole  Object  Shape  Quantity  Quarter | 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 |