***Autumn term:***

| *Year 5* | *Year 6* |
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| **Place Value** | |
| Week 1: | |
| Step 1: Numbers to 10,000  Step 2: Numbers to 100,000  Step 3: Numbers to 1,000,000  Step 4: Read and write numbers to 1,000,000  Step 5: Powers of 10 | Step 1: Numbers to 1,000,000  Step 2: Numbers to 10,000,000  Step 3: Read and write numbers to 10,000,000  Step 4: Powers of 10 |
| Week 2: | |
| Step 6: 10/100/1,000/10,000/100,000 more or less  Step 7: Partition numbers to 1,000,000  Step 8: Number line to 1,000,000  Step 9: Compare and order numbers to 100,000  Step 10: Compare and order numbers to 1,000,000 | Step 5: Number lines to 10,000,000  Step 6: Compare and order any integers  Step 7: Round any integer  Step 8: Negative numbers |
| Week 3: |
| Step 11:Round to the nearest 10, 100 or 1,000  Step 12: Round within 100,000  Step 13: Round within 1,000,000  Step 14: Roman numerals to 1,000 |
| **Addition, Subtraction, Multiplication and Division** | |
| Week 1: | |
| *Addition and Subtraction:*  Step 1: Mental strategies  Step 2: Add whole numbers with more than 4 digits  Step 3: Subtract whole numbers with more than 4 digits | Step 1: Add and subtract integers  Step 2: Common factors  Step 3: Common multiples  Step 4: Rules of divisibility |
| Week 2: | |
| Step 4: Round to check answers  Step 5: Inverse operations  Step 6: Multi-step addition and subtraction problems | Step 5: Primes to 100  Step 6: Square and cube numbers  Step 7: Multiply up to a 4-digit number by a 2-digit number  Step 8: Solve problems with multiplication |
| Week 3: | |
| Step 7: Compare calculations  Step 8: Find missing numbers.  *Multiplication and Division:*  Step 1: Multiples  Step 2: Common multiples | Step 9: Short division  Step 10: Division using factors  Step 11: Introduction to long division  Step 12: Long division with remainders |
| Week 4: | |
| Step 3: Factors  Step 4: Common factors  Step 5: Prime numbers  Step 6: Square numbers  Step 7: Cube numbers | Step 13: Solve problems with division  Step 14: Solve multi-step problems  Step 15: Order of operations |
| Week 5: | |
| Step 8: Multiply by 10,100 and 1,000  Step 9: Divide by 10, 100 and 1,000  Step 10: Multiples of 10, 100 and 1,000 | Step 15: Order of operations  Step 16: Mental calculations and estimation  Step 17: Reason for known facts |
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| **Converting Units** | |
|  | Week 1: |
| Step 1: Metric measures  Step 2: Convert metric measures  Step 3: Calculate with metric measures  Step 4: Miles and kilometres  Step 5: Imperial measures |
| **Fractions** | |
| Week 1: | |
| Step 1: Find fractions equivalent to a unit fraction  Step 2: Find fractions equivalent to a non-unit fraction  Step 3: Recognise equivalent fractions  Step 4: Convert improper fractions to mixed numbers  Step 5: Convert mixed numbers to improper fractions | Step 1: Equivalent fractions and simplifying  Step 2: Equivalent fractions on a numberline  Step 3: Compare and order (denominator)  Step 4: Compare and order (numerator) |
| Week 2: | |
| Step 6: Compare fractions less than 1  Step 7: Order fractions less than 1  Step 8: Compare and order fractions greater than 1  Step 9: Add and subtract fractions with the same denominator | Step 5: Add and subtract simple fractions  Step 6: Add and subtract any two fractions  Step 7: Add mixed numbers  Step 8: Subtract mixed numbers  Step 9: Multi-step problems |
| Week 3: | |
| Step 10: Add fractions within 1  Step 11: Add fractions with total greater than 1  Step 12: Add to a mixed number  Step 13: Add two mixed numbers | Step 10: Multiply fractions by integers  Step 11: Multiply fractions by fractions  Step 12: Divide a fraction by an integer  Step 13: Divide any fraction by an integer |
| Week 4: | |
| Step 14: Subtract fractions  Step 15: Subtract from a mixed number  Step 16: Subtract from a mixed number - breaking the whole  Step 17: Subtract two mixed numbers | Step 14: Mixed fractions with fractions  Step 15: Fraction of an amount  Step 16: Fraction of an amount - find the whole |

***Spring term:***

| *Year 5* | *Year 6* |
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| **Multiplication and Division** | **Decimals** |
| Week 1: |  |
| Step 1: (Recap) Multiply 2 and 3-digit numbers by 1-digit numbers.  Step 2: Multiply 4-digit numbers by 1-digit numbers  Step 3: Multiply 2-digit numbers by 2-digit numbers | Step 1: Place value within 1 (tenths, hundredths, thousandths)  Step 2: Round decimals  Step 3: Add and subtract decimals  Step 4: Multiply by 10, 100 and 1,000  Step 5: Divide by 10, 100 and 1,000 |
| Week 2: |  |
| Step 4: Multiply 3-digit numbers by 2-digit numbers  Step 5: Multiply 4-digit numbers by 2-digit numbers | Step 6: Multiply decimals by integers  Step 7: Divide decimals by integers  Step 8: Multiply and divide decimals in contexts |
| Week 3: | **Fractions, decimals and percentages** |
| Step 6: (Recap) Divide 2 and 3-digit numbers by 1-digit numbers  Step 7: Divide 4 digit numbers by 1 digit numbers  Step 8: Divide with remainders | Week 1: |
| Step 1: Fraction and decimal equivalents  Step 2: Understand percentages  Step 3: Fractions to percentages  Step 4: Equivalent Fractions, decimals and percentages |
| **Fractions** |
| Week 1: | Week 2: |
| Step 1: Multiply a unit fraction by an integer  Step 2: Multiply a non-unit fraction by a integer  Step 3: Multiply mixed numbers by integers  Step 4: Calculate a fraction of a quantity | Step 5:Order fractions, decimals and percentages  Step 6: Percentages of amounts (one step)  Step 7: Percentages of amounts (multi step)  Step 8: Percentages - miss values |
| Week 2: | **Ratio** |
| Step 5: Fraction of an amount  Step 6: Find the whole  Step 7: Use fractions as operators | Week 1: |
| Step 1: Use ratio language  Step 2: Introduction to the ratio symbol  Step 3: Calculating ratio  Step 4: Ratio and fractions |
| **Decimals and percentages** | Week 2: |
| Week 1: | Step 5: Scale drawing / using scale factors  Step 6: Ratio and proportion problems  *Recipes* |
| Step 1: Decimals up to 2 decimal places  Step 2: Equivalents fractions and decimals (tenths)  Step 3: Equivalent fractions and decimals (thousandths)  Step 4: Understanding thousandths (in place value charts, decimals and fractions) |
| **Algebra** |
| Week 2: | Week 1: |
| Step 5: Order and compare decimals  Step 6: Rounding decimals (whole number and nearest decimal place)  Step 7: Understand percentages | Step 1: Find a rule (1 and 2 step / function machines)  Step 2: Form expressions  Step 3: Substitution  Step 4: Formulae  Step 5: Form equations |
| Week 3: | Week 2: |
| Step 8: Percentages and fractions and decimals  Step 9: Equivalent fractions, decimals and percentages | Step 6: Solve 1-step equations  Step 7: Solve 2-step equations  Step 8: Find pairs of values  Step 9: Solve problems with 2 unknowns |
| **Area and perimeter** | **Area, perimeter and volume** |
| Week 1: | |
| Step 1: Perimeter of rectangles  Step 2: Perimeter of rectilinear shapes  Step 3: Perimeter of polygons | Step 1: Shapes - same area  Step 2: Area and perimeter  Step 3: Area of triangles (counting squares, right angled triangles, area of any triangles) |
| Week 2: | |
| Step 4: Area of rectangles  Step 5: Area of compound shapes  Step 6: Estimate area | Step 4: Area of a parallelogram  Step 5: Volume - counting cubes  Step 6: Volume of a cuboid |
| **Statistics** | |
| Week 1: | |
| *Recap: Interpret charts*  Step 1: Read and interpret line graphs  Step 2: Draw line graphs | Step 1: Read, interpret and draw line graphs  Step 2: Dual bar graphs  Step 3: Read and interpret pie charts |
| Week 2: | |
| Step 3: Read and interpret tables  Step 4: Two-way tables  Step 5: Read and interpret timetables | Step 4: Pie charts with percentages  Step 5: Draw pie charts  Step 6: The mean |

***Summer term:***

| *Year 5* | *Year 6* |
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| **Shape** | |
| Week 1: | |
| Step 1: Understand and use degrees  Step 2: Classify angles  Step 3: Estimate angles  Step 4: Measure angles up to 180° | Step 1: Measure and classify angles  Step 2: Calculate angles  Step 3: Vertically opposite angles  Step 4: Angles in a triangle |
| Week 2: | |
| Step 5: Draw lines and angles accurately  Step 6: Calculate angles around a point  Step 7: Calculate angles on a straight line | Step 5: Angles in a triangle – special cases  Step 6: Angles in a triangle – missing angles  Step 7: Angles in a quadrilateral  Step 8: Angles in polygons |
| Week 3: | |
| Step 8: Lengths and angles in shapes  Step 9: Regular and irregular polygons  Step 10: 3-D shapes | Step 9: Circles  Step 10: Draw shapes accurately  Step 11: Nets of 3-D shapes |
| **Position and Direction** | |
| Week 1: | |
| Step 1: Read and plot coordinates  Step 2: Problem solving with coordinates  Step 3: Translation | Step 1: The first quadrant  Step 2: Read and plot points in four quadrants  Step 3: Solve problems with coordinates  Step 4: Translations Step 5 Reflections |
| Week 2: |
| Step 4: Translation with coordinates  Step 5: Lines of symmetry  Step 6: Reflection in horizontal and vertical lines |
| **Decimals** | **Problem solving and investigations** |
| Week 1: |
| Step 1: Use known facts to add and subtract decimals within 1  Step 2: Complements to 1  Step 3: Add and subtract decimals across 1 |
| Week 2: |
| Step 4: Add decimals with the same number of decimal places  Step 5: Subtract decimals with the same number of decimal places  Step 6: Add decimals with different numbers of decimal places |
| Week 3: |
| Step 7: Subtract decimals with different numbers of decimal places  Step 8: Efficient strategies for adding and subtracting decimals |
| **Negative units** |
| Week 1: |
| Step 1: Understand negative numbers  Step 2: Count through zero in 1s  Step 3: Count through zero in multiples  Step 4: Compare and order negative numbers  Step 5: Find the difference |
| **Converting units** |
| Week 1: |
| Step 1: Kilograms and kilometres  Step 2: Millimetres and millilitres  Step 3: Convert units of length |
| Week 2: |
| Step 4: Convert between metric and imperial units Step 5: Convert units of time Step 6 Calculate with timetables |
| **Volume** |
| Week 1: |
| Step 1: Cubic centimetres  Step 2: Compare volume  Step 3: Estimate volume  Step 4: Estimate capacity |