***Autumn term:***

| *Year 5* | *Year 6* |
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| **Place Value** |
| Week 1: |
| Step 1: Numbers to 10,000Step 2: Numbers to 100,000Step 3: Numbers to 1,000,000Step 4: Read and write numbers to 1,000,000Step 5: Powers of 10 | Step 1: Numbers to 1,000,000Step 2: Numbers to 10,000,000Step 3: Read and write numbers to 10,000,000Step 4: Powers of 10 |
| Week 2: |
| Step 6: 10/100/1,000/10,000/100,000 more or lessStep 7: Partition numbers to 1,000,000Step 8: Number line to 1,000,000Step 9: Compare and order numbers to 100,000Step 10: Compare and order numbers to 1,000,000 | Step 5: Number lines to 10,000,000Step 6: Compare and order any integersStep 7: Round any integerStep 8: Negative numbers |
| Week 3: |
| Step 11:Round to the nearest 10, 100 or 1,000Step 12: Round within 100,000Step 13: Round within 1,000,000Step 14: Roman numerals to 1,000 |
| **Addition, Subtraction, Multiplication and Division** |
| Week 1: |
| *Addition and Subtraction:*Step 1: Mental strategiesStep 2: Add whole numbers with more than 4 digitsStep 3: Subtract whole numbers with more than 4 digits | Step 1: Add and subtract integersStep 2: Common factorsStep 3: Common multiplesStep 4: Rules of divisibility  |
| Week 2: |
| Step 4: Round to check answersStep 5: Inverse operationsStep 6: Multi-step addition and subtraction problems | Step 5: Primes to 100Step 6: Square and cube numbersStep 7: Multiply up to a 4-digit number by a 2-digit numberStep 8: Solve problems with multiplication |
| Week 3: |
| Step 7: Compare calculationsStep 8: Find missing numbers.*Multiplication and Division:*Step 1: MultiplesStep 2: Common multiples | Step 9: Short divisionStep 10: Division using factorsStep 11: Introduction to long divisionStep 12: Long division with remainders |
| Week 4: |
| Step 3: FactorsStep 4: Common factorsStep 5: Prime numbersStep 6: Square numbersStep 7: Cube numbers | Step 13: Solve problems with divisionStep 14: Solve multi-step problemsStep 15: Order of operations |
| Week 5: |
| Step 8: Multiply by 10,100 and 1,000Step 9: Divide by 10, 100 and 1,000Step 10: Multiples of 10, 100 and 1,000 | Step 15: Order of operationsStep 16: Mental calculations and estimationStep 17: Reason for known facts |
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| **Converting Units** |
|  | Week 1: |
| Step 1: Metric measuresStep 2: Convert metric measuresStep 3: Calculate with metric measuresStep 4: Miles and kilometresStep 5: Imperial measures |
| **Fractions** |
| Week 1: |
| Step 1: Find fractions equivalent to a unit fractionStep 2: Find fractions equivalent to a non-unit fractionStep 3: Recognise equivalent fractionsStep 4: Convert improper fractions to mixed numbersStep 5: Convert mixed numbers to improper fractions | Step 1: Equivalent fractions and simplifyingStep 2: Equivalent fractions on a numberlineStep 3: Compare and order (denominator)Step 4: Compare and order (numerator) |
| Week 2: |
| Step 6: Compare fractions less than 1Step 7: Order fractions less than 1Step 8: Compare and order fractions greater than 1Step 9: Add and subtract fractions with the same denominator  | Step 5: Add and subtract simple fractionsStep 6: Add and subtract any two fractionsStep 7: Add mixed numbersStep 8: Subtract mixed numbersStep 9: Multi-step problems |
| Week 3: |
| Step 10: Add fractions within 1Step 11: Add fractions with total greater than 1Step 12: Add to a mixed numberStep 13: Add two mixed numbers | Step 10: Multiply fractions by integersStep 11: Multiply fractions by fractionsStep 12: Divide a fraction by an integerStep 13: Divide any fraction by an integer |
| Week 4:  |
| Step 14: Subtract fractionsStep 15: Subtract from a mixed numberStep 16: Subtract from a mixed number - breaking the wholeStep 17: Subtract two mixed numbers | Step 14: Mixed fractions with fractionsStep 15: Fraction of an amountStep 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 numbersStep 3: Multiply 2-digit numbers by 2-digit numbers | Step 1: Place value within 1 (tenths, hundredths, thousandths)Step 2: Round decimalsStep 3: Add and subtract decimalsStep 4: Multiply by 10, 100 and 1,000Step 5: Divide by 10, 100 and 1,000 |
| Week 2: |  |
| Step 4: Multiply 3-digit numbers by 2-digit numbersStep 5: Multiply 4-digit numbers by 2-digit numbers | Step 6: Multiply decimals by integersStep 7: Divide decimals by integersStep 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 numbersStep 7: Divide 4 digit numbers by 1 digit numbersStep 8: Divide with remainders | Week 1: |
| Step 1: Fraction and decimal equivalentsStep 2: Understand percentagesStep 3: Fractions to percentagesStep 4: Equivalent Fractions, decimals and percentages |
| **Fractions** |
| Week 1: | Week 2: |
| Step 1: Multiply a unit fraction by an integerStep 2: Multiply a non-unit fraction by a integerStep 3: Multiply mixed numbers by integersStep 4: Calculate a fraction of a quantity | Step 5:Order fractions, decimals and percentagesStep 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 wholeStep 7: Use fractions as operators | Week 1: |
| Step 1: Use ratio languageStep 2: Introduction to the ratio symbolStep 3: Calculating ratioStep 4: Ratio and fractions |
| **Decimals and percentages** | Week 2: |
| Week 1: | Step 5: Scale drawing / using scale factorsStep 6: Ratio and proportion problems*Recipes* |
| Step 1: Decimals up to 2 decimal placesStep 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 decimalsStep 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 expressionsStep 3: Substitution Step 4: FormulaeStep 5: Form equations |
| Week 3: | Week 2: |
| Step 8: Percentages and fractions and decimalsStep 9: Equivalent fractions, decimals and percentages | Step 6: Solve 1-step equationsStep 7: Solve 2-step equationsStep 8: Find pairs of valuesStep 9: Solve problems with 2 unknowns |
| **Area and perimeter** | **Area, perimeter and volume** |
| Week 1: |
| Step 1: Perimeter of rectanglesStep 2: Perimeter of rectilinear shapesStep 3: Perimeter of polygons | Step 1: Shapes - same areaStep 2: Area and perimeterStep 3: Area of triangles (counting squares, right angled triangles, area of any triangles) |
| Week 2: |
| Step 4: Area of rectanglesStep 5: Area of compound shapesStep 6: Estimate area | Step 4: Area of a parallelogram Step 5: Volume - counting cubesStep 6: Volume of a cuboid |
| **Statistics** |
| Week 1: |
| *Recap: Interpret charts*Step 1: Read and interpret line graphsStep 2: Draw line graphs | Step 1: Read, interpret and draw line graphsStep 2: Dual bar graphsStep 3: Read and interpret pie charts |
| Week 2: |
| Step 3: Read and interpret tablesStep 4: Two-way tablesStep 5: Read and interpret timetables | Step 4: Pie charts with percentagesStep 5: Draw pie chartsStep 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 shapesStep 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 |