Year 5 Maths Learning

| Term \ Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Autumn | Number: Place Value | | | Number: Addition & Subtraction | | Number: Multiplication & Division | | | Number: Fractions | | | |
| Spring | Number: Fractions | | | Number: Multiplication & Division | | Number: Fractions | | | Number: Decimals and percentages | | | |
| | Statistics | | | | | Geometry: Position and Direction | | | | | | |
| Summer | Number: Decimals | | Number: Negative numbers | Measurement: Perimeter and area | | Geometry: Properties of Shapes | | | Measurement: Converting | | Measurement: Volume | |

Maths Small Steps: Year 5 Autumn Term

| Number: Place Value | Number: Addition and Subtraction | Number: Multiplication and Division (1) | Number: Fractions |
|---|---|---|---|
| • Number to 10,000<br>• Roman numerals to 1,000<br>• Round to the nearest 10, 100 and 1000<br>• Number to 100,000<br>• Compare and order numbers to<br>• 100,000<br>• Round numbers within 100,000<br>• Numbers to a million<br>• Counting in 10s, 100s, 1,000s, 10,000s and 100,000s<br>• Compare and order numbers to<br>a million<br>• Round numbers to a million<br>• Negative numbers | • Mental strategies<br>• Add whole numbers with more than 4 digits (column method)<br>• Subtract whole numbers with more than 4 digits (column method)<br>• Round to estimate and approximate<br>• Inverse operations (addition and subtraction)<br>• Multi step addition and subtraction problems<br>• Using inverse to find missing numbers | • Multiples<br>• Common multiples<br>• Factors<br>• Common factors<br>• Prime numbers<br>• Square numbers<br>• Cube numbers<br>• Multiplying by 10, 100 and 1000<br>• Dividing by 10, 100 and 1000<br>• Multiples of 10, 100 and 1000 | • Equivalent to a unit fraction<br>• Equivalent to a non-unit fraction<br>• Recognise equivalent fractions<br>• Convert improper fractions to mixed numbers<br>• Convert mixed numbers to improper fractions<br>• Compare fractions less than 1<br>• Order fractions less than 1<br>• Compare and order fractions greater than 1<br>• Add and subtract fractions with the same denominator<br>• Add fractions within 1<br>• Add fractions with total greater than 1<br>• Add to a mixed number<br>• Add two mixed numbers<br>• Subtract fractions<br>• Subtract from a mixed number<br>• Subtract from a mixed number – breaking the whole<br>• Subtract two mixed numbers |

Maths Small Steps: Year 5 Spring Term

| Statistics | Number: Multiplication and Division (2) | Number: Fractions | Geometry: Position and Direction | Number: Decimals and Percentages |
|---|---|---|---|---|
| • Read and interpret line graphs<br>• Draw line graphs<br>• Use line graphs to solve problems<br>• Read and interpret tables<br>• Two way tables<br>• Timetables | • Multiply 4 digits by 1 digit<br>• Multiply 2 digits by a 2-digit number (area model)<br>• Multiply 2 digits by 2 digits<br>• Multiply 3 digits by 2 digits<br>• Multiply 4 digits by 2 digits<br>• Solve problems with multiplication<br>• Short division<br>• Divide 4 digits by 1 digit<br>• Divide with remainders<br>• Efficient division<br>• Solve problems with multiplication and division | • Multiply a unit fraction by an integer<br>• Multiply a non-unit fraction by an integer<br>• Multiply a mixed number by an integer<br>• Calculate a fraction of a quantity<br>• Fraction of an amount<br>• Find the whole<br>• Use fractions as operators | • Read and plot coordinates<br>• Problem solving with coordinates<br>• Translation<br>• Translation with coordinates<br>• Lines of symmetry<br>• Reflection in horizontal and vertical lines | • Decimals up to 2 decimal places<br>• Equivalent fractions and decimals (tenths)<br>• Equivalent fractions and decimals (hundredths)<br>• Equivalent fractions and decimals<br>• Thousandths as fractions<br>• Thousandths as decimals<br>• 7 Thousandths on a place value chart<br>• Order and compare decimals (same number of decimal places)<br>• Order and compare any decimals with up to 3 decimal places<br>• Order and compare any decimals with up to 3 decimal places<br>• Round to 1 decimal place<br>• Understand percentages<br>• Percentages as fractions<br>• Percentages as decimals<br>• Equivalent fractions, decimals and percentages |

Maths Small Steps: Year 5 Summer Term

| Number: Decimals | Negative numbers | Measurement: Area and perimeter | Geometry: Properties of Shapes | Measurement: Converting Units | Measurements: Volume |
|---|---|---|---|---|---|
| • Use known facts to add and subtract decimals within 1<br>• Complements to 1<br>• Add and subtract decimals across 1<br>• Add decimals with the same number of decimal places<br>• Subtract decimals with the same number of decimal places<br>• Add decimals with different numbers of decimal places<br>• Subtract decimals with different numbers of decimal places<br>• Efficient strategies for adding and subtracting decimals<br>• Decimal sequences<br>• Multiply by 10, 100 and 1,000<br>• Divide by 10, 100 and 1,000<br>• Multiply and divide decimals – missing values | • Understand negative numbers<br>• Count through zero in 1s<br>• Count through zero in multiples<br>• Compare and order negative numbers<br>• Find the difference | • Perimeter of rectangles<br>• Perimeter of rectilinear shapes<br>• Perimeter of polygons<br>• Area of rectangles<br>• Area of compound shapes<br>• Estimate area | • Measuring angles in degrees<br>• Measuring with a protractor<br>• Classify angles<br>• Estimate angles<br>• Measure angles up to 180°<br>• Draw lines and angles accurately<br>• Calculate angles around a point<br>• Lengths and angles in shapes<br>• Regular and irregular polygons<br>• 3-D shapes | • Kilograms and kilometres<br>• Milligrams and millilitres<br>• Metric units<br>• Imperial units<br>• Converting units of time<br>• Timetables | • What is volume?<br>• Compare volume<br>• Estimate volume<br>• Estimate capacity |