

# Year 4 Maths Autumn Term Overview

| Mathematical strand:         | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Measurement                                                                                                                                                                                                     | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Topic:                       | Place Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Addition and Subtraction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Area                                                                                                                                                                                                            | Multiplication and Division part 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Big Question:                | How does knowing place value help us put numbers in order and compare them easily?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Why is it better to use smart shortcuts instead of always writing everything down in full?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | When can we apply our knowledge of area in our daily lives and when would we need to use it?                                                                                                                    | How can we use what we know about multiplication and division in other areas of maths?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Key knowledge and skills:    | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Represent numbers to 1,000</li> <li>• Partition numbers to 1,000</li> <li>• Number line to 1,000</li> <li>• Thousands</li> <li>• Represent numbers to 10,000</li> <li>• Partition numbers to 10,000</li> <li>• Flexible partitioning of numbers to 10,000</li> <li>• Find 1, 10, 100, 1,000 more or less</li> <li>• Number line to 10,000</li> <li>• Estimate on a number line to 10,000</li> <li>• Compare numbers to 10,000</li> <li>• Order numbers to 10,000</li> <li>• Roman numerals</li> <li>• Round to the nearest 10</li> <li>• Round to the nearest 100</li> <li>• Round to the nearest 1,000</li> <li>• Round to the nearest 10, 100 or 1,000</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Add and subtract 1s, 10s, 100s and 1,000s</li> <li>• Add up to two 4-digit numbers - no exchange</li> <li>• Add two 4-digit numbers - one exchange</li> <li>• Add two 4-digit numbers - more than one exchange</li> <li>• Subtract two 4-digit numbers - no exchange</li> <li>• Subtract two 4-digit numbers - one exchange</li> <li>• Subtract two 4-digit numbers - more than one exchange</li> <li>• Efficient subtraction</li> <li>• Estimate answers</li> <li>• Checking strategies</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• What is area?</li> <li>• Count squares</li> <li>• Make shapes</li> <li>• Compare areas</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Multiples of 3</li> <li>• Multiply and divide by 6</li> <li>• 6 times-table and division facts</li> <li>• Multiply and divide by 9</li> <li>• 9 times-table and division facts</li> <li>• The 3, 6 and 9 times-tables</li> <li>• Multiply and divide by 7</li> <li>• 7 times-table and division facts</li> <li>• 11 times-table and division facts</li> <li>• 12 times-table and division facts</li> <li>• Multiply by 1 and 0</li> <li>• Divide a number by 1 and itself</li> <li>• Multiply three numbers</li> </ul> |
| Key vocabulary:              | Thousands, ten thousands, expanded form, value, round, standard form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Estimate, inverse operations, column method, regrouping, borrow, carry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Area, square centimetres, square metres, count squares, unit, compare                                                                                                                                           | Divisible, inverse, factor, multiple, groups of, lots of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| What I will know by the end: | I will be able to use what I've learned in different situations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

# Year 4 Maths Spring Term Overview

| Mathematical strand:         | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Topic:                       | Multiplication & division part 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Length and perimeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fractions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Decimals part 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Big Question:                | When we multiply or divide by 10 or 100, we just add or take away zeros. Do you agree or disagree with this?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | How might vast distances and perimeters be measured and when will I need to use these skills?                                                                                                                                                                                                                                                                                                                                                                                                    | Fractions must always be less than 1 whole. Why is this statement incorrect?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Can you think of another way to separate the whole number and the decimal part of a number?                                                                                                                                                                                                                                                                                                                                                                                            |
| Key knowledge and skills:    | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>Factor pairs</li> <li>Use factor pairs</li> <li>Multiply by 10</li> <li>Multiply by 100</li> <li>Divide by 10</li> <li>Divide by 100</li> <li>Related facts - multiplication and division</li> <li>Informal written methods for multiplication</li> <li>Multiply a 2-digit number by a 1-digit number</li> <li>Multiply a 3-digit number by a 1-digit number</li> <li>Divide a 2-digit number by a 1-digit number (1)</li> <li>Divide a 2-digit number by a 1-digit number (2)</li> <li>Divide a 3-digit number by a 1-digit number</li> <li>Correspondence problems</li> <li>Efficient multiplication</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>Measure in kilometres and metres</li> <li>Equivalent lengths (kilometres and metres)</li> <li>Perimeter on a grid</li> <li>Perimeter of a rectangle</li> <li>Perimeter of rectilinear shapes</li> <li>Find missing lengths in rectilinear shapes</li> <li>Calculate perimeter of rectilinear shapes</li> <li>Perimeter of regular polygons</li> <li>Perimeter of polygons</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>Understand the whole</li> <li>Count beyond 1</li> <li>Partition a mixed number</li> <li>Number lines with mixed numbers</li> <li>Compare and order mixed numbers</li> <li>Understand improper fractions</li> <li>Convert mixed numbers to improper fractions</li> <li>Convert improper fractions to mixed numbers</li> <li>Equivalent fractions on a number line</li> <li>Equivalent fraction families</li> <li>Add two or more fractions</li> <li>Add fractions and mixed numbers</li> <li>Subtract two fractions</li> <li>Subtract from whole amounts</li> <li>Subtract from mixed numbers</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>Tenths as fractions</li> <li>Tenths as decimals</li> <li>Tenths on a place value chart</li> <li>Tenths on a number line</li> <li>Divide a 1-digit number by 10</li> <li>Divide a 2-digit number by 10</li> <li>Hundredths as fractions</li> <li>Hundredths as decimals</li> <li>Hundredths on a place value chart</li> <li>Divide a 1- or 2-digit number by 100</li> </ul> |
| Key vocabulary:              | Factor, commutative, correspond, divisor, efficient method, scaling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rectilinear, Irregular shapes, equivalence, estimate, formula, adjacent                                                                                                                                                                                                                                                                                                                                                                                                                          | Equivalent fractions, simplify, common denominator, improper fraction, mixed number, convert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Decimal, decimal points, tenths, hundredths, equivalent, place holder                                                                                                                                                                                                                                                                                                                                                                                                                  |
| What I will know by the end: | I will be able to use what I've learned in different situations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



# Year 4 Maths Summer Term Overview



| Mathematical strand          | Number                                                                                                                                                                                                                                                                                                                                                                                                       | Measurement                                                                                                                                                                                                                                                                                                                             | Measurement                                                                                                                                                                                                                                                                                                                          | Geometry                                                                                                                                                                                                                                                                                                                                                  | Statistics                                                                                                                                                                                                                                       | Geometry                                                                                                                                                                                                                                                                                               |
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| Topic                        | <u>Decimals part 2</u>                                                                                                                                                                                                                                                                                                                                                                                       | <u>Money</u>                                                                                                                                                                                                                                                                                                                            | <u>Time</u>                                                                                                                                                                                                                                                                                                                          | <u>Shape</u>                                                                                                                                                                                                                                                                                                                                              | <u>Statistics</u>                                                                                                                                                                                                                                | <u>Position and direction</u>                                                                                                                                                                                                                                                                          |
| Big Question                 | How do decimal points help us in our everyday lives?                                                                                                                                                                                                                                                                                                                                                         | If you were buying lots of things in a shop, how could estimating help you stay within your budget?                                                                                                                                                                                                                                     | When might you need to change the time from a 12-hour format to a 24-hour format? Is the 12-hour format still useful?                                                                                                                                                                                                                | When do we see shapes in everyday life? Are they helpful? What words do we use to describe them?                                                                                                                                                                                                                                                          | How could you use statistics to learn about the students in your class? How would you show the information?                                                                                                                                      | How and why do we use coordinates in our lives                                                                                                                                                                                                                                                         |
| Key knowledge and skills:    | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Make a whole with tenths</li> <li>• Make a whole with hundredths</li> <li>• Partition decimals</li> <li>• Flexibly partition decimals</li> <li>• Compare decimals</li> <li>• Order decimals</li> <li>• Round to the nearest whole number</li> <li>• Halves and quarters as decimals</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Write money using decimals</li> <li>• Convert between pounds and pence</li> <li>• Compare amounts of money</li> <li>• Estimate with money</li> <li>• Calculate with money</li> <li>• Solve problems with money</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Years, months, weeks and days</li> <li>• Hours, minutes and seconds</li> <li>• Convert between analogue and digital times</li> <li>• Convert to the 24-hour clock</li> <li>• Convert from the 24-hour clock</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Understand angles as turns</li> <li>• Identify angles</li> <li>• Compare and order angles</li> <li>• Triangles</li> <li>• Quadrilaterals</li> <li>• Polygons</li> <li>• Lines of symmetry</li> <li>• Complete a symmetric figure</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Interpret charts</li> <li>• Comparison, sum and difference</li> <li>• Interpret line graphs</li> <li>• Draw line graphs</li> </ul> | <p>The small steps of key knowledge and skills in this unit are:</p> <ul style="list-style-type: none"> <li>• Describe position using coordinates</li> <li>• Plot coordinates</li> <li>• Draw 2-D shapes on a grid</li> <li>• Translate on a grid</li> <li>• Describe translation on a grid</li> </ul> |
| Key vocabulary:              | Round, halves, quarters, whole, greater than, less than                                                                                                                                                                                                                                                                                                                                                      | Budget, calculate, round, convert, compare amounts, decimal notation                                                                                                                                                                                                                                                                    | Interval, chronological order, compare durations, start time, end time, calendar                                                                                                                                                                                                                                                     | Acute angle, obtuse angle, quadrilaterals, classify, lines of symmetry, construct                                                                                                                                                                                                                                                                         | Line graph, plot, point, coordinate, time graph, trend                                                                                                                                                                                           | Coordinate, first quadrant, plot, origin, translation, translate,                                                                                                                                                                                                                                      |
| What I will know by the end: | I will be able to use what I've learned in different situations.                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                        |