

# Year 4: Maths Curriculum Overview

Please note that not all schemes of work are currently available. PlanBee is working hard to complete the remaining schemes as quickly as possible.



|         | Autumn Term                          | Spring Term                         | Summer Term                      |
|---------|--------------------------------------|-------------------------------------|----------------------------------|
| Week 1  | Place Value and Ordering             | Comparing Numbers                   | Rounding and Ordering Numbers    |
| Week 2  | Exploring Addition                   | Methods of Addition                 | Using Addition and Subtraction 1 |
| Week 3  | Seeing Doubles                       | Methods of Subtraction              | Using Addition and Subtraction 2 |
| Week 4  | Exploring Subtraction                | Shape Angles                        | Multiplying Doubles and Digits   |
| Week 5  | Properties of 2D Shapes              | Measuring Weight                    | Position and Direction           |
| Week 6  | Recording Length                     | Presenting Data                     | Times Table Facts                |
| Week 7  | Data Handling                        | Using Multiplication and Division   | Dividing and Multiplying         |
| Week 8  | Multiplication and Division Facts    | Multiplication and Division Methods | Measuring Capacity               |
| Week 9  | Revising Multiplication and Division | Telling the Time                    | Handling Data                    |
| Week 10 | Fractions and Time                   | Fractions and Decimals              | Proportion Problems              |

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|---------------|---|--|---|
| <b>Week 1</b> | <b>Place Value and Ordering</b> <ul style="list-style-type: none"> <li>count in multiples of 6, 7, 9, 25 and 1000</li> <li>find 1000 more or less than a given number</li> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>order and compare numbers beyond 1000</li> <li>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value</li> </ul> | <b>Comparing Numbers</b> <ul style="list-style-type: none"> <li>find 1000 more or less than a given number</li> <li>count backwards through zero to include negative numbers</li> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>order and compare numbers beyond 1000</li> <li>identify, represent and estimate numbers using different representations</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> </ul> | <b>Rounding and Ordering Numbers</b> <ul style="list-style-type: none"> <li>count in multiples of 6, 7, 9, 25 and 1000</li> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>order and compare numbers beyond 1000</li> <li>identify, represent and estimate numbers using different representations</li> <li>round any number to the nearest 10, 100 or 1000</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> </ul> |
| <b>Week 2</b> | <b>Exploring Addition</b> <ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>  | <b>Methods of Addition</b> <ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>   | <b>Using Addition and Subtraction 1</b> <ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>   |
| <b>Week 3</b> | <b>Seeing Doubles</b> <ul style="list-style-type: none"> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> </ul>  | <b>Methods of Subtraction</b> <ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>   | <b>Using Addition and Subtraction 2</b> <ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>   |
| <b>Week 4</b> | <b>Exploring Subtraction</b> <ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>  | <b>Shape Angles</b> <ul style="list-style-type: none"> <li>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>identify acute and obtuse angles and compare and order angles up to two right angles by size</li> <li>identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>complete a simple symmetric figure with respect to a specific line of symmetry</li> </ul>   | <b>Multiplying Doubles and Digits</b> <ul style="list-style-type: none"> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> </ul>   |
| <b>Week 5</b> | <b>Properties of 2D Shapes</b> <ul style="list-style-type: none"> <li>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>find the area of rectilinear shapes by counting squares</li> <li>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> </ul>   | <b>Measuring Weight</b> <ul style="list-style-type: none"> <li>convert between different units of measure</li> <li>estimate, compare and calculate different measures, including money in pounds and pence</li> </ul>  | <b>Position and Direction</b> <ul style="list-style-type: none"> <li>describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>plot specified points and draw sides to complete a given polygon</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>   |

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|                       |  |  |  |
|-----------------------|--|--|--|
| <p><b>Week 6</b></p>  | <p><b>Recording Length</b></p> <ul style="list-style-type: none"> <li>convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>estimate, compare and calculate different measures, including money in pounds and pence</li> </ul>   | <p><b>Presenting Data</b></p> <ul style="list-style-type: none"> <li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>   | <p><b>Times Table Facts</b></p> <ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> </ul>   |
| <p><b>Week 7</b></p>  | <p><b>Data Handling</b></p> <ul style="list-style-type: none"> <li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>   | <p><b>Using Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> </ul>   | <p><b>Dividing and Multiplying</b></p> <ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> <li>solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li> </ul> |
| <p><b>Week 8</b></p>  | <p><b>Multiplication and Division Facts</b></p> <ul style="list-style-type: none"> <li>count in multiples of 6, 7, 9, 25 and 1000</li> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li> </ul> | <p><b>Multiplication and Division Methods</b></p> <ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> </ul>   | <p><b>Measuring Capacity</b></p> <ul style="list-style-type: none"> <li>convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>estimate, compare and calculate different measures, including money in pounds and pence</li> </ul>   |
| <p><b>Week 9</b></p>  | <p><b>Revising Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> </ul>   | <p><b>Telling the Time</b></p> <ul style="list-style-type: none"> <li>convert between different units of measure</li> <li>read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</li> </ul>   | <p><b>Handling Data</b></p> <ul style="list-style-type: none"> <li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>   |
| <p><b>Week 10</b></p> | <p><b>Fractions and Time</b></p> <ul style="list-style-type: none"> <li>recognise and show, using diagrams, families of common equivalent fractions</li> <li>recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li> <li>read, write and convert time between analogue and digital 12- and 24-hour clocks</li> </ul>  | <p><b>Fractions and Decimals</b></p> <ul style="list-style-type: none"> <li>recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li> <li>add and subtract fractions with the same denominator</li> <li>count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</li> <li>compare numbers with the same number of decimal places up to two decimal places</li> <li>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> <li>compare and order unit fractions, and fractions with the same denominators</li> </ul> | <p><b>Proportion Problems</b></p> <ul style="list-style-type: none"> <li>recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>solve problems that involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, include non-unit fractions where the answer is a whole number</li> <li>add and subtract fractions with the same denominator</li> <li>round decimals with one decimal place to the nearest whole number</li> <li>solve simple measure and money problems involving fractions and decimals to two decimal places</li> </ul>  |